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CATALOGUE OF
THE CULTURE COLLECTION
OF THE
COMMONWEALTH
MYCOLOGICAL INSTITUTE

FIRST EDITION



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COMMONWEALTH MYCOLOGICAL INSTITUTE

Collection of Fungus Cultures

While the function of this Collection is partly ancillary to the taxonomic work of the Institute, it is also a public collection, distributing living cultures of fungi of interest in plant pathology, industry, taxonomic research, and education.

Special sets of cultures are supplied for the purpose of testing mould-proofing treatments of commercial products; manufacturers are invited to consult the Commonwealth Mycological Institute regarding these tests. The collection also includes many strains used for the synthesis of organic substances, and others which are used in physiological assay, soil analysis, etc. A booklet is in preparation for School and University teachers giving an annotated list of fungi useful in education, and which can be obtained in culture from the Commonwealth Mycological Institute, and also instructions for growing them and preparing them for classes.

Other units of the United Kingdom organization of collections or micro-organisms are:

Fungi and yeasts pathogenic to animals.

Director of Medical Mycology,
London School of Hygiene & Tropical Medicine,
Keppel Street,
Gower Street,
London. W.C.1.

Wood-rotting Fungi.

The Director,
Forest Products Research Laboratory,
Princes Risborough,
Aylesbury, Bucks.

Yeasts (non-pathogenic) etc.

The Brewing Industry Research Foundation,
Nutfield,
Surrey.

Industrial bacteria, bacteria for microbiological assay, etc.

National Collection of Industrial Bacteria,
Department of Scientific and Industrial Research,
Chemical Research Laboratory,
Teddington, Middlesex.

Bacteria pathogenic to plants.

Director,
Sub-department of Mycology and Plant Pathology,
Botany School,
Downing Street,
Cambridge.

Bacteria pathogenic to man and animals.
 The Curator,
 Central Public Health Laboratory,
 Colindale Avenue,
 London, N. W. 9.

Bacteria of milk and dairy products, bacteria from soil, etc.
 Collection or Collections to be set up by the Agricultural
 Research Council.

The attention of residents on the continent of Europe is directed to the fine collection of fungi and yeasts maintained by the Centraalbureau voor Schimmelcultures, Baarn, Holland. In the United States the American Type Culture Collection, 2029 M street, N. W., Washington 6, D. C., provides a similar service.

Cultures are supplied to industry and to trade research associations in the United Kingdom and British Commonwealth at 10s. per culture, post free by surface mail. Reduced rates apply to research workers in Universities and to schools and colleges. For all other countries the charge is \$3.00 (or the equivalent exchange), with corresponding reductions for research and educational establishments. It is most advisable to have cultures sent by air mail to countries outside Europe, and this is charged extra at "small packet" rate.

Donors of cultures are given free exchanges (an equal number of cultures), and are entitled to have their gift isolations free when they may again require them. The maintenance of any given strain cannot, however, be guaranteed, since some organisms are difficult to keep indefinitely in artificial culture.

It is hoped that mycologists in all parts of the world will deposit cultures in the C. M. I. collection. Isolations from the type material of new species and varieties should be sent to this and to other principal collections (e. g., the C. B. S. and A. T. C. C.) for safe keeping. The duplication of cultures in more than one collection is desirable as insurance against accidental loss. Dried material for the C. M. I. Herbarium, and reprints of publications for the library, sent at the same time as the relevant cultures, will be very specially welcomed.

In this catalogue the names under which fungi are listed are those under which they are disposed in the C. M. I. Herbarium; in some cases the most important synonyms are given. The number preceding each entry is the accession number under which the isolation is filed at the C. M. I. Isolations from type collections are then marked "(T)"; "(A)" signifies that the isolation has been identified by the author of the species, although it is not derived from the original type material. The host or substratum from which the isolation was derived is then given, followed by the country or origin and the date, the name of the mycologist who isolated the fungus, and the hands through which the culture then passed, with the identification numbers attached by these workers or institutions. The annotations include notes on biochemical significance, etc. The letter "m" indicates that the isolation "mates" with the strain the number of which is given. The names of more important culture collections are abbreviated as follows:

ATCC: American Type Culture Collection, Washington.

BRL: Butterwick Research Laboratory of Imperial Chemical Industries, Ltd.

CBS: Centraalbureau voor Schimmelcultures, Baarn.

CMI: Commonwealth Mycological Institute (formerly Imperial Bureau of Mycology and Imperial Mycological Institute; to simplify entries, "CMI" is used to cover the whole period. The full citation of all CMI collections includes the registered caption "Herb. I. M. I." prefixed to the accession number).

CS: Centraalstelle.

FPRL: Forest Products Research Laboratory, Princes Risborough.

LCF: Division de Fitopathologia, Min. of Agriculture, Argentina.

ICI: Imperial Chemical Industries.

LSH: London School of Hygiene and Tropical Medicine.

MRA: Mushroom Research Association, Yaxley, Yorks.

NCTC: National Collection of Type Cultures, Lister Institute (which formerly maintained a collection of fungi).

NRRL: North Regional Research Laboratories, Peoria, Ill., U.S.A.

RCS: Royal College of Science, S. Kensington, London, S.W.7.

QM: Quartermaster Collection, Philadelphia.

RRI: Rubber Research Institute, Kuala Lumpur, Malaya.

When ordering cultures, clients are advised to quote the accession numbers only when they are sure that a particular strain is most suitable for their purpose. It is usually more satisfactory to state the purpose for which the cultures are required, and to leave the choice of strain to the mycologist in charge of the Collection. For educational purposes it is often sufficient to order by the generic name only, or to allow us to select the best species or strain available.

A list of this kind is inevitably out-of-date by the time it is printed, for new items are added to the Collection almost daily, while others are lost or discarded. The absence from the list of a particular species does not, therefore, necessarily mean that it is unobtainable, and enquiry should be made. It is proposed to issue lists of new accessions and deletions at intervals, and at longer intervals to publish a complete revised catalogue.

LIST OF CULTURES

Absidia blakesleeana Lendner

52,119 Soil, Sudan. M.A.Nour.

Absidia butleri Lendner

37,126 Soil, Lakenheath Warren, Suffolk, 1948. J.H.Warcup (B.122).

38,498 Soil, Malaya. J.H.Warcup (E.5a). m.38,499.

38,499 Peat soil, Hauraki Plains, New Zealand, 1945. J.H.Warcup (E.5b). m.38,498.

Absidia capillata v. Tiegh.

26,471 Vaginal discharge from cow, G.B. C.V.Watkins 1948.

Absidia coerulea Bain.

15,400 Iowa, U.S.A. G.W.Martin -NCTC(1790), 1924.

Absidia cristata Dade

15,401 (T). Cassava stems (following anthracnose), Aburi, Gold Coast (554), 1932. H.A.Dade-NCTC(4927).

Absidia cylindrospora Hagem

15,402 Soil, Scotland. A.H.Campbell-Malcolm Wilson-NCTC(5695), 1939. (+) m.15,403.

15,403 Soil, Scotland. A.H.Campbell-Malcolm Wilson-NCTC(5695a), 1939. (-) m.15,402.

Absidia glauca Hagem (Syn. *A. regnieri* (Lucet & Cost.) Lendner)

15,405 W.H.Wilkins-NCTC(3098), 1929. (+) m.15,406.

15,406 W.H.Wilkins-NCTC(3099), 1929. (-) m.15,405.

31,248 Soil, Lakenheath Warren, Suffolk, 1947. J.H.Warcup (B.52). (+) m.31,249.

31,249 Soil, Lakenheath Warren, Suffolk, 1948. J.H.Warcup (B.53). (-) m.31,248.

Absidia italiana (Cost. & Perin) Dodge

15,396 Man, Egypt. N.Gohar-LSH(130,C.339)-NCTC(6163), 1941.

Absidia lichtheimi (Lucet & Cost.) Lendner

15,397 Man. LSH(C.180)-NCTC(6152).

Absidia orchidis (Vuill.) Hagem

38,500 Soil, Lakenheath Warren, Suffolk, 1946. J.H.Warcup (B.35). m.38,501.

38,501 Soil, Lakenheath Warren, Suffolk, 1946. J.H.Warcup (B.36). m.38,500.

Absidia ramosa (Lindt) Lendner

15,398 Man, Egypt. N.Gohar-LSH(C.337;137)-NCTC(6162), 1941.

Absidia repens v. Tiegh.

20,746 New Zealand, 1947. Vernon (38.1)-Newhook.

Acremoniella atra (Corda) Sacc.

36,922 *Deschampsia caespitosa*, dead leaves, Cambridge 1949. P.K.C. Austwick (AF.19).

38,958 Timber, Kenya, 1949. R.M.Nattrass (1280).

Acremoniella verrucosa Tognini

44,920 Soil, Ampthill Forest Nursery, Beds., 1949. J.H.Warcup (E.38).

Acrospeira levis Wiltshire

24, 280 (A) Contaminant of culture, Cardiff, 1944. S. J. Hughes—NCTC(6818).

15, 326 (A) Contaminant of culture, CMI Kew, 1947. H. A. Dade.

43, 603 Seed oats, Belfast, N. Ireland, 1947. J. P. Malone (5L).

Acrospeira macrosporoidea (Berk.) Wiltshire

17, 843 (A) Decaying broom, Lambourne Hill, Perranzabuloe, Cornwall, 1947. F. Rilstone.

Acrostalagmus cinnabarinus Corda

— see *Nectria inventa*.

Acrothecium lunatum Wakker

— see *Curvularia lunata*

Actinomucor repens Schost.

40, 054 Contaminant of culture, Kenya, 1949. R. M. Nattrass(1328).

Actinomyces spp.

45, 559 Buried wool, U. S. A. M. H. Downing (QM. B. 1, 477)—CMI, 1951. Attacks non-autoclaved wool.

45, 560 Tarpaulin, New Guinea. M. H. Downing (QM. B. 814)—CMI, 1951. Actively cellulolytic.

Allescheria boydii Shear

15, 407 (T) Man, U. S. A. Shear (120)—CMI—NCTC(1313), 1922.

Allomyces cystogenes Emerson

48, 633 California, U. S. A. Emerson. — C. T. Ingold.

Alternaria abietis Tengwall

36, 124 Pine stump, England, 1949. J. Rishbeth (F. 9).

Alternaria brassicae (Berk.) Sacc.

51, 115 Candytuft stems, Tanganyika, 1952. G. B. Wallace (95/52).

Alternaria citri Pierce

40, 049 Orange fruit, Wokingham, Surrey, 1950. P. J. Cousins.

Alternaria solani (Ell. & Mart.) Sorauer

46, 816 (?) Tomato fruit, Cambridge, 1946. (?) IBPBG. 14—R. V. Tipler —P. W. Brian (408). Production of alternaric acid.

49, 671 I. C. I., Hawthorndale Lab. s(K. 30).

Alternaria sp. (*tenuis* group)

16, 254(b) Contaminant of culture, Kew, Surrey, 1947. H. A. Dade.

35, 215 Tomato, Isleworth, Middlesex, 1949. P. Cross.

49, 788 Soil, Dacca, Pakistan, 1952. Q. A. Ahmed (55).

Alternaria spp.

25, 852 Tomato, London, 1948. G. Smith (LSH. X. 28).

45, 343 Alfalfa seedlings, Israel. Peleg—CMI, 1951.

Amauroascus verrucosus Eidam

45, 134 Soil, Amphill Forest Nursery, Beds., 1949. J. H. Warcup (E. 18).

Amblyosporium botrytis Fresen.

1, 691 *Lactarius* sp., Haslemere, Surrey, 1945. E.W. Mason.

Apiocrea chrysosperma (Tul.) Syd.

41, 604 On an agaric, Adel Wood, near Leeds, 1949, C.V. La Touche.

Arthrobotrys dactyloides Drechsler

50, 679 Heather and bracken compost, Bedford College, London, 1952.
S.M. Dixon.

Arthrobotrys oligospora Fresen.

31, 994 Parsley root, England, 1948. —Walters.

Arthrobotrys robusta Duddington

36, 118 (T) Decaying wood, Mickleham, Surrey, 1948. C.L. Duddington
(63).

Arthrobotrys sp.

45, 626 Cacao seed, York. E. Yuill (OM.18)—CMI, 1951.

Ascoidea rubescens Brefeld

51, 500 Fitzpatrick—CBS—CMI, 1953.

Ashbya gossypii (Ashby & Nowell) Guill.

— see *Nematospora gossypii*.

Aspergillus alliaceus Thom & Church

16, 125 Church—CBS—CMI, 1937. (This is probably Thom's 4660,
NRRL 316 = Walker & Lindegren's isolation from onion in U.S.A.).
51, 982 (T) *Macrobasis albida*. Thom (USDA. 200.4956)—NRRL(315)—
ATCC(10060).

Aspergillus amstelodami (Mangin) Thom & Church

16, 110 Soil, Sudan, 1940. A.S. Boughey.
17, 455 Isolation used for testing mould-proofing. G. Smith—CMI, 1947.

Aspergillus atropurpureus Blochw.

— see *A. violaceo-fuscus*, IMI. 16, 135.

Aspergillus aureus Nakazawa

50, 567 B.A. Stone. Produces pectic enzymes.

Aspergillus avenaceus G. Smith

16, 140 (T) Seed peas, England, 1938. G. E. Turfitt—G. Smith (B. 155).

Aspergillus awamori Nakazawa

29, 162 Japan. Okunuki—CBS—E. Yuill—CMI, 1948.

Aspergillus brevipes G. Smith

51, 494 (T) Soil, Kosciusko Mt., New South Wales. S. Marcus—G. Smith
(263).

Aspergillus caespitosus Raper & Thom

16, 034 (T) Soil, Arkansas, U.S.A. F.R. Earle—Raper & Thom—G.
Smith—CMI, 1948.

Aspergillus candidus Link ex Fr.

- 15,961 Fermented cacao, Kpeve, Gold Coast (543), 1932. H.A.Dade.
- 15,963 Textiles, Manchester. G.Smith (BB.32)—CMI, 1942.
- 16,046 Vegetable lard, Aburi, Gold Coast (601), 1933. H.A.Dade.
- 16,146 ?Kita—CBS—Raistrick (Ac.43)—NCTC(3798), 1931.
- 16,147 New Zealand. J.C.Neill (792)—NCTC(5605), 1938.

Aspergillus carbonarius (Bain.) Thom

- 16,136 Blakeslee—Thom (4030.1)—NCTC(1325), 1922. (= Raistrick Ac.11, ATCC 1025).

Aspergillus carneus Blochw.

- 31,402 Sugar-cane, Southern Rhodesia. G.R.Bates (7756E).
- 16,128 Soil, New Zealand. J.C.Neill (657), as *A.cervinus* Masee, — NCTC(5609), 1938.

Aspergillus chevalieri (Mangin) Thom & Church

- 16,115 Fermented cacao, Gold Coast (565a), 1932. H.A.Dade.
- 16,120 Fermented cacao, Aburi, Gold Coast (464), 1929. H.A.Dade.
- 16,121 Copra, Keta, Gold Coast (567.b.2) 1932. H.A.Dade.
- 16,134 Copra, Keta, Gold Coast (567.b.1) 1932. H.A.Dade.
- 39,494 A prune, Tafo, Gold Coast, 1949. P.M. & H.Owen (646).
- 52,655 Cashew (*Anacardium occidentale*), Tanganyika, 1953. G.B. Wallace (110/53).

Aspergillus cinnamomeus Schieman

- 16,148 (T) Mutant from *A.niger*, Germany, ca 1911. E.Schieman—CBS—Raistrick (Ac.42)—NCTC(3774).

Aspergillus citricus Mosseray

- 15,954 (T) Wehmer—Neuberg ("*A.niger citricus*")—Thom (4668.4)—NCTC(1692)—CMI, 1944.

Aspergillus citrisporus v. Höhn.

- 25,285 CBS—E.Yuill—CMI, 1948.
- 31,251 Soil of Podocarpus forest, Awarua, Southland, New Zealand, 1945. J.H.Warcup (A.29).

Aspergillus clavatus Desm.

- 16,126 Contaminant of culture, Kew, 1944. E.W.Mason.
- 16,154 CBS—Thom (138)—Raistrick (Ac.87) as "*A.giganteus*"; G.Smith—CMI, 1948.

"Aspergillus cyaneus"

- see IMI.16,137 *A.sydowi*.

Aspergillus disjunctus Bain. & Sart.

- see IMI.16,114 *A.repens*.

Aspergillus echinulatus (Del.) Thom & Church

- 16,123 Linseed cake, Scotland. D.Snow—CMI, 1944.
- 32,051 G.Smith (A.15)—E.Yuill—CMI, 1948.

Aspergillus effusus Tirab.

- 16,142 U.S.A. B.F.Nutman—Thom (130)—NCTC(973), 1921. (= Raistrick Ac.21, ATCC.1010.).

"Aspergillus ferrugineus Fuckel"

- see IMI.16,118 *A.ruber*.

Aspergillus fischeri Wehm.

- 12, 424 Air, Bracknell, Berks. R. V. Tipler (HS. 2620)—CMI, 1947.
 16, 143 Garden soil, England, 1942. G. Smith (BB. 183). (= NCTC 6581).
 — see also *A. malignus*.

Aspergillus flavipes (Bain. & Sart.) Thom & Church

- 16, 106 Sugar, India, 1938. G. Watts Padwick. (Cawnpore VIII).
 16, 144 Bainier—Thom (4640:402)—NCTC 3890, 1931. (= Raistrick Ac. 73, NCTC 1716).
 52, 107 Soil, Sudan. M. A. Nour—CMI, 1953.

Aspergillus flavus Link ex Fr.

- 15, 959 Fermented cacao, Aburi Gold Coast (35), 1923. H. A. Dade.
 16, 025 Termites, Sierra Leone, 1935. F. C. Deighton (M. 839).
 16, 145 CBS—ATCC(1003)—Church(108)—NCTC(596), 1920. (= Raistrick Ac. 16).
 29, 481 Larva of *Apis mellifera* L. (causing Stone Brood disease), Hull, 1948. P. S. Milne.
 31, 393 Maize seed, Southern Rhodesia. G. R. Bates (7820)—CMI, 1948.
 39, 178a Groundnut seedling (assoc. with crown rot), Urambo, Tanganyika, 1950. I. A. S. Gibson.
 40, 413 Sugar-cane stem, Jinja, Uganda, 1950. R. M. Nattrass (1341).
 45, 542 A shoe, New Guinea. M. H. Downing (QM. 70. A)—CMI, 1951.
 Actively attacks autoclaved wool.
 52, 173 NRRL(492)—ATCC(11495).
 52, 174 NRRL(627)—ATCC(11496).
 52, 175 NRRL(1946)—ATCC(11497).
 52, 176 NRRL(2211)—ATCC(11499).

Aspergillus flavus Link ex Fr. var. *rufus* Blochw.

- 15, 958 Dryinid parasite, Njala, Sierra Leone, 1936. F. C. Deighton.
 16, 057 Contaminant of culture, Gold Coast—England, 1942. H. A. Dade.

Aspergillus fonsecaeus Thom & Raper

- 38, 982 Air, Buitenzorg, Java, 1949. Boedijn & Reitsma (BR. 6/49).

Aspergillus fumaricus Wehm.

- 16, 141a Neuberg—Thom (4668.2)—NCTC(1693), 1923. (= IMI. 16, 141b).
 16, 141b Neuberg—Raistrick (103)—NCTC(3892), 1931. (= IMI. 16, 141a).

Aspergillus fumigatus Fresen.

- 16, 030 White egret (aspergillosis of lungs), London Zoo, 1920. S. R. Douglas—NCTC(367)—G. Smith. (Fide Soltys, Nature 154, 550, 1944, produces aspergillin, bacteriostatic for *Mycobacteria*.)
 16, 062 Barley grain, London, 1943. J. A. Freeman.
 16, 152 Church (118)—NCTC(982), 1921. (= Raistrick Ac. 71).
 16, 195 Jute fibre, Calcutta, 1940. S. W. Basu (14).
 25, 326 Owl (*Athene noctua*), London Zoo, 1922. N. S. Lucas—NCTC (1373), 1922.
 28, 646 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup (B. 48).
 34, 687 Calf (aborted foetus), Kent, 1949. G. Kershaw.
 35, 101 Calf (aborted foetus), Kent, 1949. G. Kershaw (31).
 35, 102 Calf (aborted foetus), Kent, 1949. G. Kershaw (143).
 35, 570 Calf (aborted foetus), Kent, 1949. G. Kershaw (243. SC).
 36, 121 Calf (aborted foetus), Kent, 1949. G. Kershaw (414).
 45, 139 Lungs of man, London, 1950. D. Abbott.
 45, 266 Antrum of man, London, 1951. K. Maunsell.

- 45,338 Birkinshaw (M.400)—CMI, 1951. Produces spinulosin.
 45,546 A shoe, India. M.H. Downing (QM.45.h)—CMI, 1951. Very actively cellulolytic.
 47,565 Man, sputum, England, 1951. J.Walker (LSH).
 48,338 Lungs of man, Edenbridge, Kent, 1951. K.F.Hinson.
 48,339 Lungs of man, Deal, Kent, 1951. K.F.Hinson.
 48,340 Lungs of man, Bromley, Kent, 1951. K.F.Hinson.
 51,984 Microscope lens, Colombo, Ceylon, 1952. S.Nagamultri. Hygrophobic strain.
- Aspergillus fumigatus* Fresen. var. *helvolus* Yuill
 16,153 (T) Mutant from *A.fumigatus* in culture, England, 1937. E.J.L. Yuill—NCTC(5911), 1939.
- Aspergillus giganteus* Wehm.
 24,256 Beverige—G.Smith (BB.128), 1948.
 — see also *A.clavatus*, IMI.16,154.
- Aspergillus gracilis* Bain.
 16,400 Textiles, Manchester, 1930. G.Smith (BB.119).
- Aspergillus granulosis* Raper & Thom
 17,278 (T) Soil, U.S.A. K.Raper (NRRL.1931)—NCTC(6973), 1945.
- Aspergillus humicola* Chaudhuri & Sachar
 46,813 Soil, Read's Cavern, S.Wales, 1947. E.G.Jefferys—P.W. Brian (385). Production of humicolin.
- Aspergillus itaconicus* Kinoshita
 16,119 (T) Juice of pickled plums, ("Unesu"), Japan. Kinoshita—Blochwitz—CBS—G.Smith (A.48)—CMI, 1948.
 45,630 *Mangifera indica* shoots, Kenya, 1951. R.M.Nattrass (1383).
- Aspergillus janus* Raper & Thom
 16,065 (T) Soil, Panama, 1941. J.T.Bonner—Raper & Thom (NRRL.1787)—NCTC(6970), 1945.
- Aspergillus janus* Raper & Thom var. *brevis* Raper & Thom
 16,066 Soil, Alameda, Mexico, 1942. W.B.Roos—Raper & Thom (NRRL.1935)—NCTC(6971), 1945.
- Aspergillus japonicus* Saito
 15,952 Contaminant of culture, Gold Coast (609), 1933. H.A.Dade.
 16,026 CBS—CMI, 1939.
 29,103 *Anisophyllea laurina* fruit, Njala, Sierra Leone, 1948. F.C. Deighton (M.2647).
- Aspergillus luchuensis* Inui
 15,953 "Awamori" (alcoholic beverage), Japan. Hanzawa—Thom (4291.3)—NCTC(1017)—CMI, 1941, (= NRRL 356).
 45,629 Mango roots, Kenya, 1951. R.M.Nattrass (1382).
- Aspergillus lutescens* Bain. ex Thom & Church
 13,768 Contaminant of culture, 1947. G.Smith.
- Aspergillus malignus* Lindt
 16,061 Hay, England, 1938. R.Hull.

Aspergillus mangini Raper & Thom

50, 126 Plugs of culture vessels, Kenya, 1952. R. M. Nattrass (1754).

Aspergillus melleus Yukawa

37, 952 Cheroots, Makeni, Sierra Leone, 1949. F. C. Deighton (M. 3105).

49, 108 Contaminant of culture, Kenya, 1951. R. M. Nattrass (1601).

52, 102 Soil, Sudan. M. A. Nour — CMI, 1953.

Aspergillus minimus Wehm.

16, 133 (? T) [? Wehmer —] Kral — Raistrick (Ac. 68) — G. Smith — CMI, 1948 (= NCTC 3783).

Aspergillus nidulans (Eidam) Wint.

16, 040 CBS — CMI, 1942.

16, 643 Cotton lint, Bombay, 1947. M. K. Patel. Strain with large perithecia.

28, 644 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup (B. 89).

31, 386 Tobacco, assoc. with "barn rot", Southern Rhodesia. G. R. Bates (7111. D) — CMI, 1948.

31, 387 Carnation, assoc. with stem rot, Southern Rhodesia. G. R. Bates (7567/4a) — CMI, 1948.

Aspergillus nidulans var. *albus* Yuill

16, 037 (T) Mutant in culture of *A. nidulans*. E. Yuill — NCTC (5912), 1937.

Aspergillus nidulans var. *latus* Thom & Raper

45, 625 Gum arabic, York. E. Yuill — CMI, 1951.

Aspergillus nidulans (Eid.) Wint., mutant strains.

38, 576 D. J. D. Hockenhull (A. 69) — Dr. Birkinshaw — CMI, 1949. Parent strain of mutants produced by exposure to mustard gas:

38, 577, Blue B alpha

38, 579, S alpha

38, 580, S beta

38, 581, S gamma

38, 582, S delta

38, 583, S epsilon

38, 584, S zeta

38, 595, S eta

38, 585, S theta

38, 586, S iota

38, 587, S kappa

38, 588, S lambda

38, 589, S mu

38, 590, S nu

38, 591, S omicron

38, 592, S sigma

38, 593, S upsilon

38, 594, S xi

Aspergillus niger v. Tiegh.

15, 955 Contaminant of culture, Kew, 1941. H. A. Dade.

16, 107 Contaminant of culture, Kew, 1947. H. A. Dade.

17, 454 G. Smith — CMI, 1947. Isolation used for testing mould-proofing.

- 25,325 Gwynne-Vaughan—NCTC(1214), 1922.
- 27,809 Bernhauer, Prague—Benkiser, Ladenberg, —B.I.O.S.—NCTC (7193), 1946. "Strain XXII", citric acid production.
- 31,274 Man (otomycosis). Pijper (13) and Pullinger—NCTC(2390), 1927.
- 31,275 Man (otomycosis). Pijper (12) and Pullinger—NCTC(2389), 1927.
- 31,276 CBS—Thom (111). Raistrick (Ac. 2)—NCTC(3902), 1931. (= ATCC 1004, Raistrick Ac. 13, NCTC. 594).
- 31,283 D. J. D. Nicholas, 1948. Mulder's 'strain M', assay of Mg, Cu, Zn, and Mo in soils.
- 31,821 Thom (167)—USDA(3528.7)—ATCC(1015) (= Raistrick (Ac. 4), NCTC(3858a)). Production of citric acid.
- 34,169(a) Groundnut hypocotyls, Urambo, Tanganyika, 1949. I. A. S. Gibson—CMI, 1949.
- 41,871 K. B. Raper (NRRL. 337)—ATCC(10254). Production of amylase in submerged culture.
- 41,873 H. T. Herrick & O. E. May (USDA. 244-4704. 878)—C. Thom—ATCC(6276). Production of citric acid.
- 41,874 K. B. Raper (NRRL. 599)—ATCC(9142). Production of citric acid from molasses.
- 41,875 K. B. Raper (NRRL. 67)—ATCC(8740). Production of gluconic acid.
- 41,876 K. B. Raper (NRRL. 3)—ATCC(9029). Production of gluconic acid.
- 42,053 Sisal boles, Tanga, Tanganyika, 1950. R. M. Nattrass.
- 42,054 Groundnut crown rot, Kongwa, Tanganyika, 1950. R. M. Nattrass.
- 44,215 Grapes, Jerez de la Frontiera, Spain, 1950. H. R. Haselgrove. Wine cellar mould.
- 45,551 (?) Leather. M. H. Downing (QM. 458) = TC. 215-4247. Used in U. S. A. for testing mould-proofing.
- 50,565 C. Thom, U. S. D. A. strain 215-111—B. A. Stone. —NRRL(322) ATCC. 1004. Produces cellulolytic enzymes.
- 50,566 NRRL(326)—B. A. Stone. Produces cellulolytic enzymes.

Aspergillus niveo-glaucus Thom & Raper

32,050 G. Smith (A. 16)—E. Yuill—CMI, 1948.

Aspergillus novus Bain. nom. nud. —

see IMI. 16, 131. A. repens.

Aspergillus ochraceus Wilh.

16,264 Church (4065. 1)—NCTC(979), 1921. (= Raistrick Ac. 23, ATCC. 1009).

33,910 Sauce espagnole. Tafo, Gold Coast, 1948. H. Owen (isolate No. 3).

35,038 Potato, Tafo, Gold Coast, 1949. H. Owen (isolate No. 10).

49,874 Tomato seed, Jersey, 1952. D. H. Phillips (J. 9).

Aspergillus okazakii Okaz.

15,962 Japan, Takahashi—Thom (4337)—Raistrick (Ac. 52)—NCTC(3787)—CMI, 1947.

Aspergillus oryzae (Ahlb.) Cohn

17,299 A. Chaston Chapman—NCTC(965), 1921. Gives a high yield of diastase.

- 44, 241 T.K. Walker—ATCC(7252), 1938. Conversion of sugars to kojic acid.
 44, 242 NRRL(692)—ATCC(9102), 1943. Production of amylase.
 51, 983 Oshima-Thom (USDA. 290. AoOld)—NRRL(458)—ATCC(10063).
 52, 141 NRRL(453)—ATCC(11500).
 52, 142 NRRL(696)—ATCC(11498).
 52, 143 NRRL(695)—ATCC(11489).
 52, 144 NRRL(2217)—ATCC(11493).
 52, 145 NRRL(2220)—ATCC(11494).
 52, 146 NRRL(694)—ATCC(11488).
 52, 147 NRRL(449)—ATCC(11487).
 52, 148 NRRL(2160)—ATCC(11492).
 52, 149 NRRL(697)—ATCC(11491).

Aspergillus ostianus Wehm.

- 15, 960 CBS—Raistrick (Ac. 35)—NCTC(3788), 1931. (= Thom 4724. 35, NRRL 420).
 38, 799 Chicory seed, Kenya, 1949. R. M. Nattrass (1291).

Aspergillus panamensis Raper & Thom

- 19, 393 (T) Soil, Panama, 1941. J. T. Bonner—K. B. Raper (Strain 1785)—NCTC(6974).

Aspergillus parasiticus Speare

- 15, 957 (T) *Pseudococcus calceolariae* Mask., sugar-cane mealy-bug, Hawaii. Speare—Thom(3509)—NCTC(975), 1921. (= Raistrick Ac. 14, ATCC. 1018, NRRL. 502).

Aspergillus proliferans Smith

- 16, 105 (T) Cotton fabric, Manchester. G. Smith—NCTC(6546), 1943.

Aspergillus pseudoglaucus Blochw.

- 16, 122 (T) Blochwitz—CBS—G. Smith (A. 19), 1933. (= Thom & Raper 5343).

Aspergillus pulverulentus (McAlp.) Thom

- 24, 300 Maize (from U. S. S. R.), Liverpool, 1948. K. G. Smith.

Aspergillus quadricinctus Yuill

- 48, 583 (T) Cardboard, York, 1947. E. Yuill (A. 46).
 22, 193 Cardboard, York, 1945. E. Yuill.

Aspergillus quadrilineatus Thom & Raper

- 45, 624 Gum arabic, York. E. Yuill—CMI, 1951.

Aspergillus quercinus (Bain.) Thom & Church

- 1, 177 Orange fruit, Rehovat, Palestine, 1939. Reichert (K. 376).

Aspergillus repens (Corda) Sacc.

- 16, 111 Dust in food store, Bristol, 1943. W. E. S. Brown.
 16, 112 Wheat grain, London, 1943. J. A. Freeman.
 16, 113 Cacao, Leeds, 1943. E. W. Bentley.
 16, 114 Da Fonseca, Brazil—CBS—Raistrick (Ac. 39)—NCTC(3776)—CMI, 1943, as "*A. disjunctus*".
 16, 131 G. Smith (Raistrick Ac. 46)—CMI, 1943, as "*A. novus* Wehm. nom. nud".
 50, 673(a) Signalling apparatus, Chiswick, London, 1952. Supt. of Lab. s, London Transport Executive.

Aspergillus restrictus G. Smith

16,267 (T) Cloth, Manchester, 1931 or earlier. G. Smith (BB.94). (= NCTC.6976 & 4155).

39,044 Soil, Nigeria, 1949. A. M. Reid.

Aspergillus restrictus var. B. G. Smith

16,268 (T) Cotton fabric, Manchester, 1930. G. Smith (= NCTC.4156).

Aspergillus ruber (Spieck. & Brem.) Thom & Church

16,038 Dried milk bag, Bristol, 1943. W. E. S. Brown.

16,116 Copra, Keta, Gold Coast. (567.B/3), 1932. H. A. Dade.

16,117 Tobacco, Kew, 1942. H. A. Dade.

16,118 V. Oyen—CBS—Raistrick (Ac.39)—NCTC(3777), 1931, as "*A. ferrugineus* Fuckel". (= Thom 4724.39).

31,399 Sugar-cane pith, Southern Rhodesia. G. R. Bates (7756a)—CMI, 1948.

51,112 Jam, Harrow, Middlesex, 1952. J. Hawkins.

Aspergillus rugulosus Thom & Raper

16,059 Soil, Sudan, 1940. A. S. Boughey (SF.17).

Aspergillus schiemanii Thom

16,269 (T) Mutant in culture of *A. niger*, Germany. Schieman—CBS—Raistrick (Ac.37)—NCTC(3781), 1931. (= Thom 3534c).

Aspergillus sparsus Raper & Thom

19,394 (T) Soil, La Lima, Honduras, 1942. L. A. Underkofler—K. B. Raper (1933)—NCTC(6975).

Aspergillus sulphureus (Fresen.) Thom & Church

40,641 Mouldy "Toad-in-the-hole", Tafo, Gold Coast, 1949. H. Owen (698).

Aspergillus sydowi (Bain. & Sart.) Thom & Church

16,028 Fermented cacao, Gold Coast (550), 1932. H. A. Dade.

16,137 CBS as "*A. cyaneus*"—Raistrick (Ac.97)—NCTC(3888), 1931.

35,034 Potato, Tafo, Gold Coast, 1949. H. Owen (isolate No.6).

50,646 Herbarium drying paper, Njala, Sierra Leone, 1952. F. C. Deighton (M.4747).

— see also IMI.16139 *A. versicolor*.

Aspergillus tamarii Kita

16,129 Fermented cacao, Aburi, Gold Coast (35), 1923. H. A. Dade.

39,498 Soil, Tafo, Gold Coast, 1949. H. Owen (629).

44,536 Groundnut seed, Urambo, Tanganyika, 1950. I. A. S. Gibson (90).

Aspergillus terreus Thom

16,032 Punjaub, 1942, H. Chaudhuri (2).

16,036 Apple fruit, Palestine. Perlberger—Reichert (K.332)—CMI, 1939.

16,043 Raistrick (Ac.100)—F. T. Brooks—NCTC(3911), 1931.

16,044 Sugar, India, 1939. G. Watts Padwick (XIV).

17,294 (T) Soil, U. S. A. M. B. Church (Washington 144)—NCTC(981), 1921. (= Raistrick Ac.24, ATCC.1012, NRRL.255).

28,622 Rice grain, England. E. Yuill—CMI, 1948.

35,576 Man (ear), London, 1949. Dr. C. Warren.

44,243 NRRL(1960)—ATCC(10,020), 1946. Production of itaconic acid.

44,339 G. Smith (BB.45). Production of terrein.

- 45, 543 A haversack, New Guinea. M. H. Downing, (QM. 82. j)—CMI, 1951. Actively attacks autoclaved wool.

Aspergillus terricola Marchal var *americanus* Marchal

- 16, 127 (T) Soil, Georgia, U. S. A. F. M. Scales—Washington—NCTC (974)—E. Yuill—CMI, 1949. (= Raistrick Ac. 22).

Aspergillus thomii G. Smith

- 45, 644 (T) Contaminant of culture, London. G. Smith (BB. 213)—CMI, 1951.

Aspergillus umbrosus Bain. & Sart.

- 32, 049 G. Smith (A. 37)—E. Yuill—CMI, 1948.
32, 379 Fermented cacao, 1948. E. Yuill (A. 83)—CMI, 1948.

Aspergillus ustus (Bain.) Thom & Church

- 16, 045 CBS—CMI, 1942.
16, 102 Fermented cacao, Aburi, Gold Coast (588), 1932. H. A. Dade.
16, 237 Fermented cacao, Aburi, Gold Coast (576), 1932. H. A. Dade.
19, 392 Bainier—Thom—CBS—Raistrick (Ac. 84)—NCTC (3757), 1931.
(?= Thom 4640. 488).
28, 643 Soil, Lakenheath Warren, Suffolk, 1948. J. H. Warcup (B. 125).
31, 385 Tobacco (assoc. with barn rot), Southern Rhodesia, G. R. Bates (7111c), 1948.
33, 909 Sauce espagnole, Tafo, Gold Coast, 1948. H. Owen (2).
39, 503 Capsid lesion on cacao, British Cameroons, 1949. J. West—H. Owen (639).
40, 414 Contaminant in culture from a root, Kenya, 1950. R. M. Nattrass (1352).
45, 552 Indiana, U. S. A. M. H. Downing (QM. 891). Used in U. S. A. for testing mould-proofing.
51, 453 Air, Cardiff, 1953. M. Richards (AARU. 146).

Aspergillus variegator (Berk. & Br.) Thom & Raper

- 31, 394 Contaminant of culture, Southern Rhodesia. G. R. Bates—CMI, 1948.

Aspergillus versicolor (Vuill.) Tirab.

- 16, 139 CBS—Raistrick (59)—NCTC (3906), 1931, as *A. sydowi*.
19, 378 Soil, England, 1947. P. H. Gregory.
28, 621 E. Yuill (A. 75), England—CMI, 1948.
28, 645 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup (B. 59).
31, 390 Sunn hemp seeds, Southern Rhodesia. G. R. Bates (7549b)—CMI, 1948.
31, 396 Apple fruit, Southern Rhodesia. G. R. Bates (7644F)—CMI, 1948.
39, 489 Mouldy cake, Tafo, Gold Coast, 1949. H. Owen (661).
40, 636 Paper label, Tafo, Gold Coast, 1949. H. Owen (681).
40, 496(b) Brassica sp. dead stem, Chobham, Surrey, 1950. S. J. Hughes.
45, 554 Cellophane, India, M. H. Downing (QM. 432) (= MIT. 1C)—CMI, 1951.
49, 124 Contaminant of culture, Njala, Sierra Leone, 1951. F. C. Deighton (M. 4665. With bifurcated, tuberculate, conidiophore stalks).
52, 116 Soil, Sudan. M. A. Nour—CMI, 1953.

Aspergillus violaceo-fuscus Gasp.

- 16, 135 Blochwitz (as *A. atropurpureus*)—CBS—Raistrick (Ac. 44)—NCTC(3792), 1931. (= Thom 4724. 44). Referred to *A. violaceo-fuscus* by M. B. Church.
45, 373 Buck cotton, Port Harcourt, Nigeria, 1951. A. C. Reid (732).

Aspergillus wentii Wehm.

- 16, 033 *Michelia champaca*, dead branch, Mauritius, 1935. E. F. S. Shepherd.
16, 039 Bread, Bermuda, 1943. J. M. Waterston (517).
16, 058 Contaminant of culture, Kew, 1939. H. A. Dade.
17, 295 (T) Wehmer—CBS—M. B. Church (Washington 116), 1909—NCTC(597). (= NRRL. 375).
23, 011 M. B. Church (4230)—Raistrick (Ac. 82)—NCTC(3921), 1931.
23, 012 CBS—Raistrick (Ac. 34)—NCTC(3919), 1931.
23, 013 New Zealand. J. C. Neill (511)—NCTC(5608), 1938.
23, 014 New Zealand. J. C. Neill (634b)—NCTC(5608a), 1938.
31, 256 Contaminant of culture, Kew, 1948. H. A. Dade.
35, 035 Potato, Tafo, Gold Coast, 1948. H. Owen (isolate 7).
39, 510 A prune, Tafo, Gold Coast, 1949. P. M. & H. Owen (662).
49, 129 Contaminant of culture, Njala, Sierra Leone, 1951. F. C. Deighton (M. 4670).
51, 433 E. O. Karow—R. Gordon—CMI, 1953. Producing citric acid in submerged culture.

Bactrodesmium caulinicola [(Corda)] Grove var. *pellucidum* Grove,
see *Camposporium pellucidum*.*Beauveria bassiana* (Bals.) Vuill.

- 12, 939 Le Moul't—CBS—CMI—NCTC(1801), 1924.
12, 943 *Scolytus intricata*. E. J. Butler (as *B. globulifera* (Speg.) Picard)—NCTC(1142), 1921.
39, 889 Pigmy mangold beetle, Cambridge, 1949. M. A. Keay.
44, 229 *Diatrea saccharalis*, Venezuela, 1950. R. E. Pontis.
49, 823 *Artona catoxantha* larva, Malaya, 1952. A. Johnston.

Beauveria (?) *densa* (Link) Picard

- 12, 942 Fly, Ceylon. Petch—NCTC(2227), 1926.

Beauveria stephanoderis (Bally) Petch

- 12, 944 (T) *Stephanoderes hampei*, Ceylon. Petch—NCTC(2226), 1926.

Bispora monilioides Corda

- 24, 998a *Fagus sylvatica* wood, Rademon, N. Ireland, 1948. E. W. Mason.

Blastomyces luteus Cost. & Rowland

- 51, 601 I. Isaac.

Blastophorella smithii Boedijn

- 38, 983 (A) *Arenga pinnata* male flowers, Buitenzorg, Java, 1949.
Boedijn & Reitsma (B. R. 10/49)—CMI, 1949.

Blennoria sp.

- 45, 540 Nylon plate, Indiana, U. S. A. M. H. Downing (QM. 590)—CMI, 1951.

Bombardia innata Zickler

- 38, 111 (1), Dr. D. G. Catchside. "Mating type A". m. 38, 111 (2).
 38, 111 (2), Dr. D. G. Catchside. "Mating type a". m. 38, 111 (1).

Botryosphaeria ribis Grossenb. & Dugg.

- 36, 476 *Aleurites montana* (the bark), Nyasaland, 1949. P. O. Wiehe (220).
 45, 825 H. Fawcett—CBS—CMI, 1951.

Botryosporium longibrachiatum (Oud.) Maire

- 12, 845 *Dracaena* sp., Kew, Surrey. E. J. Butler—NCTC (1241), 1922.
 46, 396 Tomato, Cambridge, 1951. J. Ives—R. W. G. Dennis.

Botryotrichum piluliferum Sacc. & March.

- 49, 832 Air, York, 1952. E. Yuill.
 51, 266(c) Plaster & wall-paper, London, 1941. H. E. Huxton—F. L. Balfour-Browne (as *Sepedonium albo-griseum* (T.).

Botrytis allii Munn

- 15, 276 Brown—CBS—NCTC (4788), 1935.
 42, 078 Onion bulb, Richmond, Surrey, 1950. H. A. Dade.

Botrytis cinerea Pers. ex Fr.

- 24, 002 Banana, England. Isol. at NCTC (6098), 1940. Spores somewhat larger than type.
 42, 077 Apple, Richmond, Surrey, 1950. H. A. Dade.
 42, 089 Vegetable marrow, Watford, Herts., 1950. W. O. Harper.
 42, 840(b) Tomato stem, Ampthill, Beds., 1950. H. A. Dade.
 50, 490 *Pinus caribaea*, Southern Rhodesia, 1952. A. Rothwell (M. R. 10882).
 52, 058 *Hibiscus cannabinus*, Southern Rhodesia, 1953. A. Rothwell (M. R. 11477).

Botrytis fabae Sardinia

- 50, 374 *Vicia faba*, "chocolate spot", Cambridge, 1952. R. Leach.

Botrytis grisella Sacc.

- see *Hansfordia grisella* (Sacc.) Hughes.

Botrytis splendida Harz

- 45, 141 Contaminant of culture, CMI, Kew, 1951. H. A. Dade.

Botrytis tulipae Lind

- 49, 873 Tulip bulb, Jersey, 1952. D. H. Phillips (J. 8).

Botrytis spp.

- 20, 453 *Acalypha godseffiana*, Gold Coast, 1947. N. Robertson (RGC. F. 67)—CMI, 1947.
 36, 909 *Acalypha hispida*, Sierra Leone, 1949. F. C. Deighton (M. 2890).

Brachysporium crepini (Westendorp) Sacc.

- see *Curvularia crepini*.

Byssoscllamys fulva Olliver & Smith

- 40, 021 K. B. Raper (NRRL. 1125)—G. Smith, 1949.

Byssoscllamys nivea Westl.

- 16, 256 CBS—M. Olliver—NCTC (5688), 1939.

Calcarisporium arbuscula Preuss

- 31,480 *Lactarius* sp., Masham, Yorks, 1948. S.J. Hughes.
 38,952 *Polyporus* (?) *adiposus*, Kew, Surrey, 1949. P.K.C. Austwick.
 43,641 *Russula* sp., Woodbury Common, Exeter, 1950. E.M. Turner.

Calonectria graminicola (Berk. & Br.) Wollenw.

- 14,764 Wheat culms, New Zealand. G.H. Cunningham—CMI—NCTC (2201), 1926.
 38,618 Turf, Scotland. M. Noble—CMI, 1949.

Camposporium cambrense Hughes

- 31,600(l) (A) *Fagus sylvaticus* cupules. Swinton Park, nr. Masham, Yorks, 1948. S.J. Hughes.

Camposporium pellucidum (Grove) Hughes

- 31,600(j) (A) *Fagus sylvaticus* cupules, Swinton Park, nr. Masham, Yorks, 1948. S.J. Hughes.

Candelabrum spinulosum van Beverwijk

- 52,463 (A) Decaying vegetable matter in pond, near Ommen, Holland, 1949. Dr. A. L. van Beverwijk.

Candida albicans (Robin) Berkh.

- 45,348 Man ("thrush"), London, 1920. Dr. Craik—NCTC(714)—P.W. Brian (BRL/320).

Candida rattus

- see *Nectaromyces rattus*.

Candida reukaufii (Grüss) Diddens & Lodder

- 34,814 (A) CBS (Delft)—CMI, 1949.

Cephalophora tropica Thaxt.

- 45,555 Shoe leather, Guadalcanal, Solomon Is. M.H. Downing (QM. 596)—CMI, 1951. (= JQMD. 956).

Cephalomyces nigricans Bain.

- 38,979 *Hibiscus rosa-chinensis* flowers, Buitenzorg, Java, 1948. Boedijn & Reitsma (B.R. 24/48)—CMI, 1949.

Cephalosporium acremonium Corda

- 44,138 Maize, Tanganyika, 1950. G.B. Wallace.

Cephalosporium asteris Dowson

- 16,261 (T) Asters, Wisley, Surrey. W.J. Dowson (Strain No. 10)—NCTC (1603), 1923.

Cephalosporium eichorniae Padw.

- 46,241 *Calopogonium mucunoides*, Njala, Sierra Leone, 1951. F.C. Deighton (M. 3829).

Cephalosporium longisporum Petch

- 16,258 (T) *Icerya purchasi* Mask., Peradeniya, Ceylon. Petch—NCTC (1859), 1924.
 21,167 (A) T. Petch—NCTC(1862), 1924.

Cephalosporium subverticillatum Schulz & Sacc.

16, 259 Petroleum, Italy. O. Verona—NCTC(4470), 1934.

Cephalosporium spp.

44, 313 Fruit of *Musa cavendishii*, Devonshire, Bermuda, 1950. J.M. Waterston (1143).

49, 137 The sea, off Sardinia. G. Brotzu—K. Crawford—CMI, 1952.
Source of cephalosporin.

49, 485 Contaminant of cultures, C. M. I., Kew, 1951. H. A. Dade.

Ceratocystis coerulescens (Münch) Bakshi

25, 318 Rennerfeldt, Sweden—FPRL(S. 87)—CMI, 1948.

32, 291 Pine log, Watford, Herts., 1948. W. O. Harper.

Ceratocystis fimbriata Ellis & Halst.

28, 618 Coffee stem, Columbia. R. E. Pontis (M-14/5)—CMI, 1948. (as *Rostrella coffeae* Zimm).

Ceratocystis ips (Rumbold) Moreau

25, 315 Canadian spruce, assoc. with ambrosia beetles, 1947. FPRL (45/2/1-688)—CMI, 1948.

Ceratocystis moniliformis (Hedge.) Moreau

47, 569 *Populus trichocarpa*, British Columbia, 1949. D. Wells.

Ceratocystis paradoxa (Dade) Moreau

(syn. *Ceratostomella paradoxa* Dade)

37, 270 (A) Coconut scape, Keta, Gold Coast, 1949. C. A. Lister.

39, 075 Coconut endosperm, London, 1950. G. Smith (BB. 246).

39, 493 *Bombax buonopozense*, Tafo, Gold Coast, 1949. H. Owen(648).

45, 851 *Cupressus macrocarpa*, Kenya, 1951. R. M. Nattrass.

50, 560 Pineapple fruit rot, Malaya, 1952. A. Johnston.

50, 577 Cacao husks, Asuansi, Gold Coast, 1952, J. J. Obeng.

Ceratocystis piceae (Münch) Bakshi

(Syn. *Ceratostomella piceae* Münch, *Ophiostoma piceae* (Münch) H. & P. Syd.)

20, 171 (A) Japanese larch, assoc. with *Trypodendron lineatum*, Scotland.
B. K. Bakshi (1)—FPRL(395)—CMI, 1949.

Ceratocystis pilifera (Fr.) Moreau

(Syn. *Ceratostomella pilifera* (Fr.) Wint.)

25, 316 Pine timber, U. S. A. USDA(89681)—FPRL(S. 83)—CMI, 1948.

25, 317 Pine box, England. FPRL (44/2/662)—CMI, 1948.

Ceratophorum setosum Kirchner

see *Pleiochaeta setosa* (Kirchn.) Hughes

Ceratostomella fimbriata Ell. & Halst.

— see *Ceratocystis fimbriata*.

Ceratostomella ips Rumbold

— see *Ceratocystis ips*.

Ceratostomella paradoxa Dade

— see *Ceratocystis paradoxa*.

Ceratostomella piceae Münch.

— see *Ceratocystis piceae*.

- 49, 634 *Pileus of Cantharellus cibarius*, Holland, 1951. G.A. de Vries (Strain 2).
 49, 635 *Mycosphaerella tulasnei*. Heald—CBS, 1931—G.A. de Vries (Strain 3).

Cladosporium sphaerospermum Penzig

- 49, 636 Nail. Tellier—G.A. de Vries, 1948 (Strain 1).
 49, 637 Nail. Zappey—G.A. de Vries, 1949 (Strain 2).
 49, 638 Engelhardt—G.A. de Vries (Strain 3).
 49, 639 *Nicotiana tabacum*. Jochems—CBS, 1933—G.A. de Vries (Strain 4).
 49, 640 Begonia stem rot, Aalsmeer, Holland, 1947. G.A. de Vries (Strain 5).
 49, 641 Janke—CBS, 1949—G.A. de Vries (Strain 6).

Cladosporium variabile (Cooke) de Vries (Syn. *Helminthosporium variabile* Cooke; *Heterosporium variabile* Cooke)

- 49, 642 (A) *Spinacia oleracea*, Baarn, 1948. G.A. de Vries (Strain 1).
 49, 643 (A) *Spinacia oleracea*, Labrousse—CBS, 1931—G.A. de Vries (Strain 2).

Clasterosporium maydicum Sacc.

- see *Sporidesmium bakeri* var. *maydicum*

Clathrosphaerina zalewskii van Beverwijk

- 38, 965 Submerged leaves, Chislehurst, Kent, 1949. J. I. Glen-Bott—C. T. Ingold—CMI, 1949.
 52, 464 (A) Willow leaf, Utrecht prov. Holland, 1949. A. L. van Beverwijk.

Claviceps purpurea (Fr.) Tul.

- 44, 613 Ryegrass seed, N. Ireland, 1941. A. E. Muskett (19).

Colletotrichum atramentarium (Berk. & Fr.) Taub.

- 39, 841 Potato tuber, Cambridge, 1949. M. Keay.

Colletotrichum curvatum Briant & Martyn

- 45, 525 Sunn hemp, Southern Rhodesia, 1951. G. R. Bates (Herb. S. Rhod. 9377(i)).

Colletotrichum derridis van Hoof

- 44, 940 *Hevea brasiliensis* leaves, Malaya. R. N. Hilton (264)—CMI, 1951.

Colletotrichum linicola Pethyb. & Laff.

- 17, 475 (A) Flax (seedling blight), Eire. G. H. Pethybridge—NCTC(1194), 1922.

Colletotrichum phomoides (Sacc.) Chester

- 17, 310 Tomato, Washington, U. S. A. —F. T. Brooks—NCTC(1130), 1921.

Colletotrichum tabacum Böning

- 50, 187 *Nicotiana tabacum*, Rajahnundry, India, 1952. B. S. Kadam.

Conidiobolus brefeldianus Couch

- 40, 769 (A) Couch—CBS—CMI, 1950.

Conidiobolus villosus Martin

- 31, 278 Derx—CBS—CMI, 1948.

Coniosporium corticale Ell. & Everh.

— see *Cryptostroma corticale*.

Coprotrichum purpurascens Bonord.

45, 638 Mushroom bed, Chesham, Bucks., 1951 F.C.Wood. Cause of "red Geotrichum" disease.

Cordyceps gracilis (Grev.) Dur. & Mont.

16, 573(a) *Hepialus* larvae, Harpenden, Herts. A.Smith—P.H.Gregory (722).

Corticium centrifugum (Lév.) Bres.

45, 639 Casing soil, mushroom beds, Worthing, Sussex, 1951. F.C. Wood.

Corticium fuciforme (Berk.) Wakef.

45, 478 Turf, Northern Ireland. J.P.Malone—CMI, 1951.

Corticium praticola Kotila

34, 886 Bean seedlings, Slough, Bucks., 1949. N.Flentje ("Bean 5")—E.M.Wakefield.

34, 887 Bean seedlings, Slough, Bucks., 1949. N.Flentje ("Bean 4")—E.M.Wakefield.

Corticium solani (Prill. & Delacr.) Bourd. & Galz.

39, 933 Wheat straw, Rothamsted, Herts., 1949. M. Glynne.

Corynespora cassicola (Berk. & Curt.) Wei

33, 863 (A) *Glycine max* seed, Nanking, China, 1947. S.T.Liu—C.T. Wei.

49, 552 Skin, man, Trinidad, 1952. M.B.Morris.

Cryptosporella eugeniae Nutm. & Roberts

44, 945 (A) Clove trees, Zanzibar, 1951. F.M.Roberts & F.J.Nutman (1).

Cryptostroma corticale (Ell. & Everh.) Gregory & Waller

43, 527 (A) Sycamore, Wanstead Park, Essex. P.H.Gregory.

Cunninghamella echinulata Thaxt.

25, 327 G.W.Martin, Iowa—NCTC(1792), 1924.

44, 534(a) Groundnut seed, Urambo, Tanganyika, 1950. I.A.S.Gibson (73).

45, 772 Greenhouse soil, Kenya, 1951. R.M.Nattrass(1462).

Cunninghamella elegans Lendner

21, 182 W.H.Wilkins, Oxford—NCTC(3101), 1929 (+), m. 21, 183.

21, 183 W.H.Wilkins, Oxford—NCTC(3102), 1929 (-), m. 21, 182.

21, 198 W.H.Wilkins, Oxford—NCTC(6536). 1943 (+), m. 21, 199.

21, 199 W.H.Wilkins, Oxford—NCTC(6537), 1943 (-), m. 21, 198.

Curvularia affinis Boedijn

38, 975 (A) Cassava leaves, Buitenzorg, Java, 1948. Boedijn & Reitsma (B.R. 6/48)—CMI, 1949.

- Curvularia andropogonis* (Zimm.) Boedijn
38,980 (A) *Andropogon nardus* leaves, Buitenzorg, Java, 1948. Boedijn & Reitsma (B.R. 26/48).
- Curvularia crepini* (Westend.) Boedijn
(Syn. *Brachysporium crepini* (Westend.) Sacc.)
605 *Ophioglossum vulgatum*, Warbush, Hickling Broad, Norfolk, 1945. E.A. Ellis.
- Curvularia geniculata* (Tracy & Earle) Boedijn
(Syn. *Helminthosporium geniculatum* Tracy & Earle)
32,573 Leaf culture, Malaya, R.N. Hilton (152)—CMI, 1948.
49,781 Soil, Dacca, Pakistan. Q.A. Ahmed (40)—CMI, 1952.
- Curvularia inaequalis* (Shear) Boedijn fide Groves & Skolko
(Syn. *Helminthosporium inaequale* Shear)
12,950 (T) Cranberry, U.S.A. C.L. Shear (Strain 51)—CMI—NCTC (1319), 1922.
- Curvularia lunata* (Wakker) Boedijn
(Syn. *Acrothecium lunatum* Wakker)
22,812 Dosootie, Karachi, India, 1946. S.K. Sen Gupta.
38,973 (A) *Andropogon sorghum*, Buitenzorg, Java, 1948. Boedijn & Reitsma (B.R. 2/48).
- Curvularia maculans* (Bancr.) Boedijn
24,440 Leaf culture, Malaya. R.N. Hilton (116), 1948.
38,972 (A) *Andropogon sorghum*, Buitenzorg, Java, 1948. Boedijn & Reitsma (B.R. 1/48).
- Curvularia oryzae* Bugnicourt
52,252 (A) *Oryza sativa*, Indo-China, F. Bugnicourt—Mycothèque, Paris—CMI, 1953.
- Curvularia tetramera* (McKinney) Boedijn & Gilman
51,574 Sand on sea coast, Jôgasima, Karagawa, Japan, 1951. K. Tubaki.
- Curvularia uncinata* Bugnicourt
52,253 (A) *Oryza sativa*, Indo-China, F. Bugnicourt—Mycothèque, Paris—CMI, 1953.
- Cylindrocarpon radiclecola* Wollenw.
43,574 *Agrostis* (?) *tenuis*, New Zealand, 1950. I.D. Blair.
43,575 *Agrostis* (?) *tenuis*, New Zealand, 1950. I.D. Blair.
- Cylindrocarpon* sp.
42,800 Banana rhizome, Portland, Jamaica, 1950. J. Rishbeth (5).
- Cytospora* sp.
49,567 Wood of apple tree, 1952. Prof. Jane—W.P.K. Findlay.
- Dactylaria candida* (Nees.) Sacc.
36,115 Leaf debris from pond, Chelsea Physic Garden, London, 1948. M. Peach (A2/19).

Dactylaria scaphoides Peach

50, 675 (T) *Typha latifolia* leaves & plant debris, Wisley Pool,
Surrey, 1950. S. M. Dixon.

Dactylella asthenopaga Drechsler

36, 117 Rotting wood, capturing nematodes, Epping Forest, 1948. C. L.
Duddington (54).

Dactylella doedycoides Drechsler

50, 677 Wood, Rickmansworth, 1950. S. M. Dixon.

Dactylella heptameres Drechsler

50, 678 Decaying leaves at edge of pond, Effingham, 1950. S. M. Dixon.

Dactylella mammillata Dixon

50, 676 (T) Rotting elm wood, Eynsham, Oxford, 1950. S. M. Dixon.

Dactylella reticulata Peach

36, 114 (T) Decaying leaves in garden tank, nr. Harpenden Common,
Herts., 1949. M. Peach (E. 1/7).

Delortia palmicola Pat.

35, 758 *Elaeis guineensis*, Nigeria, 1949. J. M. Waterston(1077).

? *Dematium nigrum* Link

17, 467 Bainier Coll'n—M. B. Church, Washington (4719.3)—NCTC(1745),
1924.

Dendrophoma obscurans (Ellis & Everh.) Anderson

42, 124 Strawberry leaves, Tanganyika, 1950. G. B. Wallace.

Dendryphiella interseminata (Berk. & Rav.) Bub. & Ranj.

49, 548 *Heracleum sphondylium*, Penhallow, Cornwall, 1952. M. B.
Ellis.

Dendryphion atrum Corda

41, 303 *Cupressus macrocarpa*, Kenya, 1950. R. M. Nattrass (1264).

Dendryphion laxum Berk. & Br.

31, 291 Sacking, Guernsey, 1948. E. W. Mason.

Dendryphion penicillatum (Corda) Fr.

46, 380 *Meconopsis primulina*, Auchincruive, by Ayr, Scotland, 1951.
H. F. Dovaston.

Dictyostelium mucoroides Bref.

50, 356 Bean leaves, Cambridge, 1952. B. J. T. Baldwin—R. Leach.

Diplodia natalensis Pole Evans

17, 463 Citrus fruits, Pretoria, S. Africa. E. W. Doidge—NCTC(1474),
1922.

Dothiorella ribis (Fuckel) Sacc.

— see *Botryosphaeria ribis*.

Dothiorella ulmi Verrall & May

45, 826 Goss—CBS—CMI, 1951.

Echinobotryium atrum Corda

- 817 Contaminant of culture, Cambridge, 1921. F. T. Brooks—NCTC (1129), as *Stysanus stemonites* (Pers. ex Fr.) Corda.
 43,604 Seed oats, Belfast, N. Ireland, 1946. J. P. Malone (53. D).
 43,605 Seed oats, Belfast, N. Ireland, 1946. J. P. Malone (5. B).

Emericella spp.

- see *Aspergillus variegator*.

Endoconidiophora coerulescens Münch

- see *Ceratocystis coerulescens*.

Endoconidiophora virescens Davidson

- 25,320 (A) Davidson, Washington (USDA 94255)—FPRL(S. 81)—CMI, 1948.

Endomyces capsulatus Rewbr., Dodge, & Ayers

- 36,481 Moore—CBS—CMI, 1949.

Epicoccum purpurascens Ehrenb. & Wallr.

- 38,597 Stained timber, Kenya, 1949. R. M. Nattrass (1276)—CMI, 1949.
 45,171 Air, London, 1951. K. Maunsell.

Eremascus albus Eidam

- 41,285 Mustard powder, Cambridge, 1950. F. T. Brooks.

Eremascus terrestris Asthana & Mahmoud

- 25,845 (? T) Soil, Nagpur, India, 1941. G. R. Bisby—NCTC(7153), 1946.

Eremothecium ashbyi Guill.

- 14,783 (T) Cotton bolls, Berber, Sudan. R. E. Massey—CMI, Guilliermond—CBS—G. R. Bisby—NCTC(7041), 1945.
 31,269 W. J. Robbins, N. Y. Botanic Gdn. —CMI, 1948.

Exobasidium vexans Mass.

- 51,593 Tea, Ceylon, CBS—CMI, 1953.
 51,594 Tea. Boger—CBS—CMI, 1953.

Exosporina fawcettii Wilson

- 31,449 (A) Persian walnut, Visalia, Tulare Co., California, 1948. E. E. Wilson.

Fomes annosus Fr.

- 20,169 Japanese larch, G. B. Bakshi—CMI, 1948. Conidial state (*Oedocephalum lineatum* (T) Bakshi), assoc. with *Trypodendron lineatum*.

Fusarium avenaceum (Fr.) Sacc.

- 47,186 Seed oat, Northern Ireland, 1950. J. P. Malone (127).
 49,894 Seed of *Vicia sativa*, Kenya, 1952. R. M. Nattrass (1772); = W. L. Gordon 3305.
 49,895 Seed of *Dactylis glomerata*, Kenya, 1952. R. M. Nattrass (1773); = W. L. Gordon 3306.

Fusarium bulbigenum Cooke & Massee var. *lycopersici* (Brushi) Wollenw.

- 45,617 CBS—P. H. Williams—CMI, 1951.

Fusarium coeruleum (Lib.) Sacc.

44, 742 A. R. Wilson (DR. 59)—P. W. Brian(35)—CMI, 1951.

Fusarium culmorum (W. G. Smith) Sacc.

19, 986 Margarine, Boxmoor, Herts., 1947. F. D. Armitage.

35, 099 Soil, Ampthill Forest Nursery, Beds., 1949. J. H. Warcup (E. 8).

Fusarium dimerum Penz.

39, 601 Rotten timber of butter churn, Kenya, 1950. R. M. Nattrass (1306).

42, 796 Banana root, Portland, Jamaica, 1950. J. Rishbeth.

49, 790 Soil, Dacca, Pakistan. Q. M. Ahmed (61)—CMI, 1952.

Fusarium equiseti (Corda) Sacc.

35, 100 Soil, Ampthill Forest Nursery, Beds., 1949. J. H. Warcup (E. 9).

42, 795 Cotton, Port Herald, Nyasaland, 1950. P. Wiehe.

42, 799 Banana rhizome, St. Catherine, Jamaica, 1950. J. Rishbeth.

49, 103 Musa sp., fruit rot, Kenya, 1951. R. M. Nattrass(1357); = W. L. Gordon 3182.

49, 354 Citrus roots, Kenya, 1952. R. M. Nattrass(1706); = W. L. Gordon 3290.

49, 525 Seed of *Chloris gayana*, Kenya, 1952. R. M. Nattrass(1743); = W. L. Gordon 3297.

49, 888 Seed of *Hordeum vulgare*, Kenya, 1952. R. M. Nattrass(1766); = W. L. Gordon 3299.

49, 889 Seed of *Ornithopus sativus*, Kenya, 1952. R. M. Nattrass(1767); = W. L. Gordon 3300.

49, 890 *Cynodon dactylis*, Kenya, 1952. R. M. Nattrass(1768); = W. L. Gordon 3301.

49, 893 Seed of *Bothriochloa insculpta*, Kenya, 1952. R. M. Nattrass(1771); = W. L. Gordon 3304.

49, 898 Roots of *Chrysanthemum cinerariaefolium*, Kenya, 1952. R. M. Nattrass(1776); = W. L. Gordon 3309.

50, 531 Maize, male flowers, Malaya, 1952. A. Johnston(732); = W. L. Gordon 3378.

Fusarium graminearum Schw.

49, 105 *Triticum vulgare*, Kenya, 1951. R. M. Nattrass(1662); = W. L. Gordon 3184. A mutant strain.

Fusarium heterosporum Nees ex Fr.

49, 106 *Cenchrus ciliaris*, Kenya, 1951. R. M. Nattrass(1710). = W. L. Gordon 3185.

Fusarium javanicum Koorders

29, 817 M. S. Lacey—CMI, 1948. Produces javanicin.

Fusarium lateritium (Nees ex Fr.) sensu Snyder & Hansen

49, 104 *Albizzia* sp., Kenya, 1951. R. M. Nattrass(1438); = W. L. Gordon 3183.

49, 523 Seed of *Lupinus* sp., Kenya, 1952. R. M. Nattrass(1741); = W. L. Gordon 3295.

49, 897 Flower of *Chrysanthemum cinerariaefolium*, Kenya, 1952. R. M. Nattrass(1775); = W. L. Gordon 3308.

Fusarium lateritium f. *crotalariae* (Padw.) Gordon

45,489 *Crotalaria juncea*, Southern Rhodesia. J. Broadfoot (10,009)—CMI, 1951. = W. L. Gordon 3077.

Fusarium lini Bolley

17,317 Linseed (wilt), Minnesota University. G. R. Bisby—CMI—NCTC (1081), 1929.

38,062 Flax seed, Wales, 1943. A. E. Muskett (37).

38,063 Flax, Canada, 1940. A. E. Muskett (38).

38,064 Flax, Canada, 1940. A. E. Muskett (39).

Fusarium moniliforme Sheld.

— see *Gibberella fujikuroi*.

Fusarium moniliforme var. *anthophilum* (A. Braun) Wollenw.

45,499 Copra, Trinidad. A. C. Thaysen—CMI, 1951; = W. L. Gordon 3080.

Fusarium moniliforme var. *subglutinans* Wollenw. & Reink.

— see *Gibberella fujikuroi* var. *subglutinans*.

Fusarium oxysporum Schlecht. [ex. Fr.] sensu Snyder & Hansen

35,097 Soil, Lakenheath Warren, Suffolk, 1948. J. H. Warcup (B. 10).

42,050 Wheat seedlings, Tanganyika, 1950. G. B. Wallace.

42,052 *Clarkia elegans*, Tanganyika, 1950. G. B. Wallace.

42,801 Soil, banana plantation, Bodles, St. Catherine, Jamaica, 1950. J. Rishbeth (6).

49,194 *Passiflora edulis*, Kenya, 1951. R. M. Nattrass (1349). = W. L. Gordon 3190.

49,524 Roots of *Lupinus* sp., Kenya, 1952. R. M. Nattrass (1742); = W. L. Gordon 3296.

49,932 Hops, canker, Tasmania, 1952. G. C. Wade (63) = W. L. Gordon.

Fusarium oxysporum f. *cubense* (E. F. Smith) Snyder & Hansen.

48,841 *Musa* sp., Kenya, 1952. R. M. Nattrass (1705).

50,182 Banana, Kenya, 1952. R. M. Nattrass (1799).

Fusarium oxysporum f. *dianthi* (Prill. & Delacr.) Snyder & Hansen

42,051 Carnation rot. Tanganyika, 1950. G. B. Wallace.

Fusarium poae (Peck.) Wollenw. apud Lewis

37,574 *Phleum pratense* ("deaf ear"), England, 1949. M. C. Preston.

Fusarium sambucinum Fuckel

44,918 Soil, Amptill Forest Nursery, Beds., 1950. J. H. Warcup (4. S. 2).

Fusarium scirpi Lamb. & Fautr.

45,490 Pumpkin root (wilt), Nyanyadzi, Southern Rhodesia. J. Broadfoot (9285)—CMI, 1951; = W. L. Gordon 3078.

Fusarium scirpi var. *acuminatum* (Ellis & Everh.) Wollenw.

35,098 Soil, Lakenheath Warren, Suffolk, 1948. J. H. Warcup (B. 79).

Fusarium semitectum Berk & Rav.

49,355 *Chrysanthemum cinerariaefolium*, Kenya, 1952. R. M. Nattrass (1718); = W. L. Gordon 3194.

- 49, 690 Sorghum seed, Tanganyika, 1952. J.S. Hemingway (K. 2); = W. L. Gordon 3365.
 49, 891 Seed of Capsicum annum, Kenya, 1952. R. M. Nattrass (1769); = W. L. Gordon 3302.
 49, 892 Seed of Hibiscus cannabinus, Kenya, 1952. R. M. Nattrass (1770); = W. L. Gordon 3303.

Fusarium solani (Mart.) App. & Wollenw. sensu Snyder & Hansen

- 42, 797 Banana root, St. Catherine, Jamaica, 1950. J. Rishbeth. (2).
 42, 798 Soil, banana plantation, Bodles, St. Catherine, Jamaica, 1950. J. Rishbeth (3).
 47, 163 Hevea rubber, tapping panel, Malaya, 1951. R. Hilton (R. R. I. 323).
 48, 718 Sisal boles, Lyamunga, Moshi, Tanganyika, 1952. M. M. Wallace.
 49, 360 Contaminant of culture, Kenya, 1951. R. M. Nattrass (1732); = W. L. Gordon 3199.
 50, 557 Carica papaya fruit, Malaya, 1952. A. Johnston; = W. L. Gordon 3380.

Fusarium trichothecioides Wollenw.

- 38, 153 Potatoes, Scotland. Boyd, Edinburgh—W. L. Gordon (2699)—CMI, 1949.

Fusarium vasinfectum Atk.

- 43, 528 CBS—W. L. Gordon (120), 1932.

Gelasinospora autosteiira Alexop. & Sun

- 45, 324 (T) Strain A. Leaves of Tillandsia usneoides, Natchez, Mississippi, U.S.A., 1949. C. J. Alexopoulos. m. 45, 325.
 45, 325 (T) Ditto, Strain B. m. 45, 324.

Gelasinospora cerealis Dowding

- 8, 991 (A) Wheat or oat crowns, Manitoba, Canada, E. S. Dowding—CMI, 1946.
 47, 701 J. H. Warcup (E. 143)—CMI, 1951.

Gelasinospora retispora Cain

- 44, 145 (T) Beta vulgaris var. cicla seeds, Enkhuisen, Holland. J. W. Groves—R. F. Cain (12105).
 51, 437 Soil, Durham, 1952. J. A. Richardson (P. II. A.)

Gelasinospora tetrasperma Dowding

- 38, 600 (T) Ptarmigan droppings, Manitoba, 1932. W. Güssow—E. S. Dowding—CBS—CMI, 1949.
 44, 146 Dung of birch partridge, Lake Mistassini, Quebec, 1948. R. F. Cain (12186).
 50, 358 Parsnip seed, British Columbia, E. Silver Keeping—CMI, 1952.

Geomyces sp.

- 23, 998 Contaminant in culture, Kew, Surrey, 1948. H. A. Dade.

Geotrichum candidum Link

- 46, 237 Cucumber fruit, Njala, Sierra Leone, 1951. F. C. Deighton (M. 3883).

Geotrichum sp.

50,669 Baker's yeast, Sheffield via Australia, 1952. C.G.Hansford.

Gibberella cyanogena (Desm.) Sacc.

49,933 Hops, "growing off", Tasmania, 1952. G.C.Wade (65).

Gibberella fujikuroi (Sawada) Wollenw.

syn. *Fusarium moniliforme* Sheld.

35,108 Chona—CBS—CMI, 1949.

45,545 India. M.H.Downing (QM.427)—CMI, 1951. Actively attacks autoclaved wool.

46,872 Sorghum roots, Israel, 1951. Minz.

49,102 *Saccharum officinarum*, Kenya, 1951. R.M.Natrass (1356);
= W.L.Gordon (3181).

51,111 Soil, Giza, Egypt, 1952. K.Naguib.

Gibberella fujikuroi var. *subglutinans* (Wollenw. & Reink.) Edwards

17,316 Sugar-cane, Pusa, India. F.J.S.Shaw—CMI—NCTC(1145),
1921.

Gibberella zeae (Schw.) Petch

43,501 Seed oats, Belfast, Northern Ireland, 1950. J.P.Malone.

Glenospora sp.

35,103 Aborted calf foetus, Kent, 1949. G.Kershaw (133).

Gliocladium album (Preuss) Petch

40,084 ?*Physarum* sp. on a rotting log, Highpark, Stanmer, Sussex,
1950. P.K.C.Austwick (F.48).

45,000 Contaminant of culture from Canada, 1950. G.R.Bisby.

Gliocladium catenulatum Gilman & Abbott

40,022 K.B.Raper (NRRL.1091)—G.Smith, 1949.

Gliocladium deliquescens Sopp

40,023 K.B.Raper (NRRL.1086)—G.Smith, 1949.

49,797 Soil, Dacca, Pakistan. Q.A.Ahmed (254)—CMI, 1952.

Gliocladium fimbriatum Gilman & Abbott

39,919 Soil, Amphill Forest Nursery, Beds., 1950. J.E.Brind
(4.ASF.1).

49,791 Soil, Dacca, Pakistan. Q.A.Ahmed (66)—CMI, 1952.

49,800 Soil, Dacca, Pakistan. Q.A.Ahmed (268)—CMI, 1952.

Gliocladium roseum Bain.

40,024 Soil, U.S.A., 1930. K.B.Raper (NRRL.1085)—G.Smith, 1949.

43,608 Seed oats, Belfast, N.Ireland, 1950. J.P.Malone.

45,493 Raspberry roots, Melsetter, Southern Rhodesia, 1951. J.
Broadfoot (Herb.S.Rhod.9795).

48,681 Cotton stalks, Arizona, U.S.A., 1952. J.G.Brown (1).

Gliocladium vermoeseni (Biourge) Thom

40,231 H.S.Fawcett—NRRL(1752)—G.Smith—CMI, 1950.

Gliocladium sp.

46,815 Soil, Britain, 1948. E.G.Jefferys—P.W.Brian (650). Produc-
tion of gliorosein, rubrogliocladin, aurantiogliocladin.

Gliomastix convoluta (Harz) Mason

- 38,981 Air, Buitenzorg, Java, 1949. Boedijn & Reitsma (B.R. 5/49).
43,610 Seed oats, Belfast, 1948. J.P. Malone (19.A/47).

Gliomastix convoluta var. *felina* (Marchal) Mason

- 52,640 Soil, Chobham Common, Surrey, 1953. P. Bull—M.P. Topping
(537).

Gliomastix protea (Sacc.) Verona & Castella

- 31,229(a) Bamboo stick, Trawscoed, Aberystwyth, 1948. S.J. Hughes
& D.K. Jones.

Gloeosporium fructigenum Berk.

- 23,136 Apple (Fruit rot) Dahlem, Berlin. T. Matsumoto—NCTC(2513),
1928.

Gloeosporium musarum Cooke & Massee

- 52,264 *Musa sapienta*, Matuga, Kenya, 1953. R.M. Nattrass (1850).

Glomerella cingulata (Stonem.) Spauld. & Schrenk

- 35,633 Avocado (dark rot, brown end), Gwanda, Southern Rhodesia,
1949. G.R. Bates (8958).
48,160 *Matthiola incana*, Brisbane, Australia, 1951. R.F. Langdon
(Univ. of Queensland 650).

Gonatobotrys simplex Corda

- 24,953 Strawberry leaf, near Pershore, Worcs. M.P. English—
CMI, 1948.

Gymnoascus reesii Baran.

- 21,157 W.H. Wilkins, Oxford—NCTC(3311), 1931.

Gymnoascus setosus Eidam

- 40,772 Soil, Lakenheath Warren, Suffolk, 1946. J.H. Warcup (B. 40).

Gymnoascus subumbrinus A. L. Smith & Ramsb.

- 41,112 Soil, Lakenheath Warren, Suffolk, 1948. J.H. Warcup (B. 30).

Hansfordia grisella (Sacc.) Hughes

Syn. *Botrytis grisella* Sacc.

- 20,743 (A) Air, Auckland, New Zealand, 1947. Vernon (A. 21. 2.)
37,961 (A) *Acer pseudoplatanus* bark, assoc. with *Steganosporium*
pyriforme (Hoffm.) Corda, High Park Wood, Stanmer, Kent, 1949.
P. K. C. Austwick.

Haplographium calophylli Wiehe

- 45,862 *Calophyllum inophyllum*, Mauritius, 1951. G. Orian ("a"),
45,863 Ditto, G. Orian ("b").

Helicodendron giganteum Glen-Bott

- 44,159 (T) Decaying oak & beech leaves, Windermere, Westmorland,
1949. J.I. Glen-Bott—C. T. Ingold—CMI, 1950.
52,472 Decaying birch leaf in drainage furrow, nr. Stockholm, Sweden,
1950. A. L. van Beverwijk.

Helicodendron paradoxum Peyronel

- 52, 470 Grass leaf in pond nr. Baarn, Holland, 1949. A. L. van Beverwijk (G. 8).

Helicodendron triglitzense (Jaap) Linder

- 38, 968 Submerged leaves, Chislehurst, Kent, J. I. Glen-Bott—C. T. Ingold.
52, 469 Decaying birch leaf in pond, Eerde, nr. Ommen, Holland, 1948. A. L. van Beverwijk.

Helicodendron tubulosum (Riess) Linder

- 17, 259 Fagus leaves, in pond, Baarn, Holland, 1947. A. L. van Beverwijk.
24, 390 In a culture of a water mould, Royal Holloway College, Egham, Surrey, 1948. Willman.
52, 471 Decaying oak leaf in pond, Baarn, Holland, 1949. A. L. van Beverwijk (22. C. 2).

Helicoon fuscosporum Linder

- 38, 970 Submerged leaves, Waggoners Wells, Surrey, 1949. J. I. Glen-Bott—C. T. Ingold.
52, 468 Decaying leaves in a pool, near Ommen, Holland, 1947. A. L. van Beverwijk (140. 3b).

Helicostylum pyriforme Bain.

- 34, 453 Fermented cacao from W. Africa, incubated at CMI, 1949. G. M. Waterhouse.
52, 123 Soil, Sudan. M. A. Nour—CMI, 1953.

Helminthosporium biforme Mason & Hughes

- 32, 847 (A) Seed oats, N. Ireland, 1948. J. Malone.

Helminthosporium carbonum Ullstrup

- 34, 929 Maize, S. Africa, 1948. G. V. M. Gonter—W. J. Dowson.

Helminthosporium cynodontis Marign.

- 45, 769 Cynodon transvaalensis, Nairobi, Kenya, 1951. R. M. Nattrass (1561).

Helminthosporium geniculatum Tracy & Earle.

- see *Curvularia geniculata*.

Helminthosporium halodes Drechsl.

- 48, 842 Seed of Pennisetum spicatum, Southern Rhodesia, 1951. W. E. Kerr (G. 32).

Helminthosporium halodes var. *tritici* Mitra

- 22, 971 Wheat roots (wilt), Sudan. S. A. J. Tarr—CMI, 1948.

Helminthosporium inaequale Shear

- see *Curvularia inaequalis*.

Helminthosporium nanum Nees ex Fr.

- 32, 202 Buxus sempervirens wood, Boxhill, Surrey, 1948. S. J. Hughes.

Helminthosporium portulacae Rader

- 37, 710(i) Portulaca grandiflora, Canada, 1949. I. L. Connors.

- Helminthosporium sativum* Pamm., King, & Bakke
21, 195 CBS—Raistrick (Ag. 94)—NCTC(4083), 1931.
- Helminthosporium smithii* Berk. & Br.
5, 649(b) Beech wood and bark, Ranmore Common, Surrey, 1946.
M. B. Ellis.
- Helminthosporium torulosum* (Syd.) Ashby apud Mason.
44, 312 Green fruit of *Musa cavendishii*, Devonshire, Bermuda, 1950.
J. M. Waterston (1142).
- Hemispora stellata* Vuill.
— see *Sporendonema sebi*.
- Hendersonula toruloidea* Nattrass
39, 473 *Manihot utilissima* stems, Tamale, Gold Coast, 1949. S. J. Hughes.
49, 167 *Morus alba*, Punjab, Pakistan, 1952. A. Hahmid Khan (M. 472).
- Heterosporium phlei* Greg.
42, 745(c) Air, Kew, 1950. H. A. Dade.
- Heterosporium terrestre* R. G. Atkinson
51, 380 (T) Soil, Ancaster, Ontario, Canada, 1952. R. G. Atkinson.
- Hormodendrum langeronii* Da Fonseca, Leão, & Penida
31, 277 (T) Man, ulcero-nodular mycosis, Brazil, 1927. Da Fonseca—
NCTC(2893), 1927.
- Humicola* sp.
45, 938 Soil, potato field, Norway. Hagem—CBS—CMI, 1951.
- Hyalodendron lignicola* Diddens
28, 069 (T) Wood-pulp, Upsala, Sweden, 1934. E. Melin—CBS—NCTC
(4592), 1934.
- Hyalodendron lignicola* f. *simplex* Diddens
28, 067 (T) Wood pulp, Upsala, Sweden, 1934. E. Melin—CBS—NCTC
(4594), 1934.
- Hyalodendron lignicola* f. *undulatum* Diddens
28, 068 (T) Wood pulp, Upsala, Sweden, 1934. E. Melin—CBS—NCTC
(4593) 1934.
- Hymenula socia* Sacc.
37, 228(a) *Albizzia zygia* bark, Tafo, Gold Coast, 1949. S. J. Hughes.
- Hypocrea lenta* (Tode) Fries
49, 271 *Acer negundo*, Arlington, U. S. A., 1945. C. L. Shear(6016).
- Hypocrea spinulosa* Fuckel
39, 915 *Dactylis glomerata*, Cambridge, 1945. E. C. Ballard—D. G.
Catcheside.
- Hypomyces aurantius* (Pers. ex Fr.) Tul.
27, 812 *Polystictus* sp., England. C. J. Hickman—CMI, 1948.

- Hypomyces rosellus* (Alb. & Schw. ex Fr.) Tul.
17,380 Hunstanton, Norfolk, 1947. Whittaker—C. La Touche (40).
- Hypomyces solani* Reinke & Berth.
23,982 Contaminant in culture, Kew, 1948. H.A. Dade. (Forms perfect state in vitro.).
- Isaria cretacea* v. Beyma
21,166 Contaminant of yeast culture, Great Burgh. W.P.K. Findlay—NCTC(5187), 1937.
- Isaria farinosa* (Dicks.) Fr.
34,420 E.W. Mason—CBS—CMI, 1949.
50,915 Pupa of *Mamestra brassicae*, Belfast, N. Ireland, 1952.
A.E. Muskett.
- Kabatiella microsticta* Bubak
14,782 *Convallaria majalis*, England, 1946. G.R. Bisby.
- Lachnea abundans* (Karst.) Sacc.
17,362 Soil, U.S.A. C.L. Shear (111)—CMI, NCTC(1320), 1922.
- Lachnea cretea* (Cooke) Phile.
17,368 H. Gwynne-Vaughan—NCTC(1215), 1922.
29,660 CBS—CMI, 1948.
- Loramyces juncicola* Weston
48,632 *Eleocharis* sp., G.B. C.T. Ingold.
- Macrophomina phaseoli* (Mauubl.) Ashby
52,047 Tobacco leaves, Tanganyika. G.B. Wallace (65/52).
- Margarinomyces bubaki* Laxa
24,000 (T) Margarine, Prague. Laxa—A.C. Thaysen—NCTC(3273), 1930.
- Masoniella chartarum* G. Smith
49,909 (T) Wall-paper, London, 1950. K. Maunsell—G. Smith.
- Masoniella grisea* G. Smith
49,908 (T) Contaminant of culture, London, 1946. G. Smith.
- Massaria* sp.
19,472(b) Oak, dead branch, Darsford wood, Exeter, Devon, 1947.
C.G.C. Chesters.
- Mauginiella scaetiae* Cavara
34,813 Date palm spathe, Shatt-el-Arab, Irak, 1949. R.P. Southby.
- Melanomma subdispersum* (Karst.) Berl. & Vogl. apud Sacc.
13,466(c) *Betula periderm*, Wheatfen Broad, Norfolk, 1947. E.A. & M.B. Ellis.
- Melanospora destruens* Shear
— see *Sordaria destruens*.

Melanospora zamiae Corda

- 38,976 Air, Buitenzorg, Java, 1948. Boedijn & Reitsma (B.R.9/48)—CMI, 1949. (Grown as routine with *Cephalosporium longisporum* (IMI.26117).).

Memnoniella echinata (Riv.) Galloway

- 15,377 Decayed water-bag, S.Africa, 1947. A.L.James—CMI, 1946. Strain used in S.Africa for research on cellulose decomposition.
 16,201 Cotton fabric, Calcutta, India, 1943. S.W.Basu (73).
 24,003 Canvas, Australia, 1944. — NCTC(6856).
 17,854 Tent canvas, Auckland, New Zealand, R.M.Brien (N.Z.17)—CMI, 1944.
 24,287 Australia (No.2)—A.E.Muskett—CMI, 1948. Strain used in Australia for tests of cellulose decomposition.
 45,547 Tent canvas, Bougainville, Solomon Is. M.H.Downing (QM.1.c)—CMI, 1951. Very actively cellulolytic.
 48,570 *Tetragonia expansa*, Southern Rhodesia, 1951. W.E.Kerr (M.38).

Mesobotrys simplex Gilman & Abbott

- 45,002 (T) Soil, Louisiana, U.S.A. Abbott—CBS—CMI, 1951.

Metarrhizium anisopliae (Metsch.) Sorok.

- 13,686(a) Wireworm (*Athous longicollis*), Llanymynech, nr.Oswestry, Salop, 1946. B.A.Cooper.
 47,038 *Tomaspis saccharina*, Venezuela, 1951. R.E.Pontis. Short-spored form.

Metarrhizium brunneum Petch

- 14,746 (A) Wireworms, Forest Grove, Oregon, U.S.A. L.P.Rockwood —K.B.Raper—W.L.White (QM.191)—CMI, 1947.

Metarrhizium glutinosum Pope

- see *Myrothecium verrucaria*.

Microascus cirrosus Curzi

- 50,106 Curzi—CBS—C.G.C.Chesters, —CMI, 1952.

Microascus intermedius Emmons & Dodge.

- 50,108 CBS—C.G.C.Chesters, —CMI, 1952.

Microascus longirostris Zukal

- 36,478 Curzi—CBS—CMI, 1949.

Microascus trigonosporus Emmons & Dodge

- 50.107 CBS—C.G.C.Chesters—CMI, 1952.

Monascus purpureus Went

- 21,189 W.H.Wilkins, Oxford—NCTC(3313), 1931.

Monochaetia unicornis (Cooke & Ellis) Sacc.

- 52,254 *Cupressus macrocarpa*, Bahati Forest, Kenya, 1949. D.Rudd Jones (PRL.1255;RM1). Strain B.
 52,255 *Cupressus forbesii*, Elburgen, Kenya, 1949. D.Rudd Jones (PRL.1260;RM.23). Strain B.
 52,256 *Cupressus macrocarpa*, Algao, Kenya, 1950. D.Rudd Jones (PRL.1261;RM.27). Strain A.

- 52, 257 (?) *Juniperus procesa*, Nanyuki, Kenya, 1951. D. Rudd Jones (PRL. 1267; RM. 44). Strain D.
 52, 258 *Cupressus macrocarpa*, Kabale, Uganda, 1951. D. Rudd Jones (PRL. 1262; RM. 35). Strain B.

Mortierella alpina Peyronel
 38, 598 CBS—CMI, 1949.

Mortierella hygrophila Linnem.
 45, 945 Soil, Ampthill Forest Nursery, Beds., 1950. J. E. Brind (A. III. C. 1).
 50, 115 CBS—M. Turner (11)—CMI, 1952.

Mortierella hygrophila Linnem. var. *minuta* Linnem.
 46, 343 Soil, Ampthill Forest Nursery, Beds., 1950. J. E. Brind (6. ASF. 1).

Mortierella stylospora Dixon-Stewart
 38, 599 McLennan—CBS—CMI, 1949. (Spores somewhat smaller than type).

Mortierella vinacea Dixon-Stewart
 14, 780 Puffball, England. Spilsbury—CMI, 1947.
 51, 442 Soil, Durham, 1953. J. A. Richardson.

Mucor abundans Povah
 36, 419 Dog's dung, Sierra Leone. F. C. Deighton (M. 2762)—CMI, 1949.
 42, 745(a) Marzipan, G. B. S. J. Duly, 1950.

Mucor alternans, v. Tiegh.
 25, 331 Central Lab., Manchurian Railway—NCTC(1903), 1924.

Mucor circinelloides v. Tiegh
 31, 800 (?) *Salpiglossis* roots, Southern Rhodesia. G. R. Bates(7316B)—CMI, 1948.

Mucor erectus Bain.
 25, 329 Central Lab., Manchurian Railway—NCTC(1904), 1924.

Mucor fragilis Bain.
 38, 955 Kenya, 1949. R. M. Nattrass (1300).
 41, 071 Contaminant of culture, CMI, Kew, 1950. H. A. Dade.

Mucor globosus Fischer
 35, 565 Wood blocks in cellar, Perranzabuloe, Cornwall, 1949. F. Rilston.
 31, 799 (?) *Salpiglossis* roots, Southern Rhodesia. G. R. Bates (7316A)—CMI, 1948.

Mucor hiemalis Wehm.
 17, 311 A. Lendner—F. T. Brooks—NCTC(1124), 1921. (+).
 17, 363 New Zealand butter, Cambridge. F. T. Brooks—NCTC(1125), 1921.
 21, 216 R. T. Tabor—NCTC(5066), 1937. (+) m. 21, 217.
 21, 217 R. T. Tabor—NCTC(5067), 1937. (-) m. 21, 216.

- 21,941 E. Blackwell—CMI, 1948. (+).
 21,942 E. Blackwell—CMI, 1948. (-).

Mucor javanicus Wehm

- 25,330 Central lab., Manchurian Railway—NCTC(1901), 1924.

Mucor mucedo auct.

- 17,971 R. T. Tabor—NCTC(5068), 1937.
 17,972 R. T. Tabor—NCTC(5069), 1937.
 26,441 C. G. Dobbs—CMI, 1948.
 29,662 Burgeff—CBS—CMI, 1948.
 29,663 Burgeff—CBS—CMI, 1948.

Mucor plumbeus Bon.

- 14,781 Paper mill slime, Lancaster. E. M. Wakefield—CMI, 1947.
 17,312 Contaminant of culture, Cambridge, 1918. F. T. Brooks—
 NCTC(1123), 1921.
 38,798 Kenya, 1949. R. M. Nattrass(1298).

Mucor prainii Chodat & Nech.

- 39,478 Lettuce roots, Italy, 1950. A. Ciccarone.

Mucor racemosus Fresen

- 17,313 Meat in cold storage, Cambridge, 1919. F. T. Brooks—NCTC
 (1122), 1921.
 17,364 Gwynne-Vaughan—NCTC(1211), 1922.
 37,018 Human ear, England, C. G. Dobbs (MR. 6)—CMI, 1949.
 37,019 Forest soil, England. C. G. Dobbs (MR. 8)—CMI, 1949.

Mucor ramannianus Möller

- 29,382 Soil, Scotland. M. E. Campbell—CBS—Malcolm Wilson—NCTC
 (5696), 1939.
 29,661 Dale—CBS—CMI, 1948.
 35,044(a) Casing soil, mushroom bed, Cheshunt, 1949. P. H. Williams—
 E. M. Wakefield.

Mucor saturninus Hagem

- 50,683 Apple, Kew, Surrey, 1952. J. Hawkins.

Mucor spinosus v. Tiegh.

- see *M. plumbeus* Bon.

Mucor subtilissimus Oudem.

- 45,618 Faeces of diseased honey bee, Isleworth, Middlesex, 1951.
 H. A. Dade.

Mucor varians Povah

- 21,997 Contaminant of culture, Kew, 1948.
 36,525 Rice, Malaya. Johnston (C. 355)—CMI, 1949.

Mycogone perniciosus Magn.

- 46,869 Mushroom, Britain, 1950. P. H. Williams.

Mycosphaerella sp.

- 45,059 Leaves of *Evodia roxburghii*, India, 1951. K. Bagchee.

Mycotypha microspora Fenner

31, 239 Rag-paper document, London, 1948. F.D.Armitage.

Myrothecium jollymanii Preston

1, 495 (T) Dried tobacco leaves, Nyasaland, 1936. R.W. Jollyman (145)—CMI—N. C. Preston (145A).

Myrothecium roridum Tode ex Fr.

22, 190 *Viola tricolor*, England, 1934. N. C. Preston (63. B).
 33, 307 Tomato, Nanking, China, 1946. P. C. Cheo—C. T. Wei.
 36, 518 *Prophocarpus tetragonobolus*, Malaya, 1949. A. Johnston (C. 371).
 41, 736 Soil, Ontario, Canada, 1948. R. G. Atkinson (24).
 52, 041 *Solanum muricatum*, Tanganyika, 1953. G. B. Wallace (137/52).

Myrothecium striatisporum Preston

1, 526 (T) Soil, New Zealand. J. C. Neill (582)—CMI—Preston (II)—CMI, 1947.
 45, 148 (A) *Glyceria aquatica*, Oxfordshire, 1949. N. C. Preston (36).

Myrothecium verrucaria Ditmar ex Fr. (non *Peziza verrucaria* Alb. & Schw.)

1, 522 Citrus fruits, Southern Rhodesia, G. R. Bates—CMI—N. C. Preston—NCTC(7115), 1946.
 25, 291 Canvas shoe, England. G. Smith (T. 28)—CMI, 1948.
 33, 551 Soybean, Kiangsu, China, 1947. S. T. Liu—C. T. Wei.
 36, 520 Groundnut, Malaya, 1949. A. Johnston (C. 397).
 41, 737 Soil, Ontario, Canada, 1948. R. G. Atkinson (25).
 44, 743 *Chrysanthemum* root, Staffordshire, N. C. Preston (60).
 45, 541 Cotton bale, Washington, D. C., U. S. A. M. H. Downing (QM. 460)—CMI, 1951.

Mystrosporium adustum Mass

28, 334 *Iris reticulata* ("ink disease"), R. H. S. Gardens, Wisley, Surrey, 1930. D. E. Green—NCTC(3361), 1931.

Mytilidion karstenii Sacc.

27, 743 (?Pine) wood and bark, Penglais Woods, Aberystwyth, 1948. S. J. Hughes.

Nectaromyces rattus Negrone & Daglio

(Syn. *Candida rattus*)

34, 656 (T) Spleen of rat, Argentina. P. Negrone (572)—J. E. Wright (LCF)—CMI, 1949.

Nectaromyces reukaufii (Grüss) Syd.

— see *Candida reukaufii*.

Nectria cucurbitula (Tode) Fr.

39, 700 Wollenweber (I)—CBS—CMI, 1950.

Nectria galligena Bres.

12, 280 *Fraxinus excelsior* twigs, Wheatfen Broad, Norfolk, 1947. M. B. Ellis.

Nectria inventa Pethyb.

- 17, 369 Potato, London, 1921. S. G. Paine—NCTC(1268) as *Acrostal-agmus cinnabarinus* Corda
 17, 438(a) *Polygonum sieboldii* stems, Boxhill, Surrey, 1947. S. J. Hughes & M. B. Ellis.
 51, 924 Fodder beet, Lincolnshire, 1953. C. E. Cornford.
 52, 641 Soil, Chobham Common, Surrey, 1953. P. Bull—M. P. Topping (327).

Nectriopsis aureo-nitens (Tul.) Maire

- 1, 346 *Stereum* sp., Thornton-le-Dale, Yorkshire, 1945. E. W. Mason.

Nematospora gossypii Ashby & Nowell

- (Syn. *Ashbya gossypii* (Ashby & Nowell) Guill.)
 31, 268 W. J. Robbins, N. Y. Bot. Garden, U. S. A. (A-1)—CMI, 1948.
 31, 279 CBS—CMI, 1948.
 37, 638 Cotton boll, Barberton, S. Africa. G. M. Wickens—CMI, 1949.

Neocosmospora vasinfecta E. F. Smith

- 49, 786 Soil, Dacca, Pakistan. Q. A. Ahmed (49)—CMI, 1952.

Neurospora crassa Shear & Dodge

- 34, 455 D. G. Catcheside, Cambridge ("A")—CMI, 1949. m. 34, 456.
 34, 456 D. G. Catcheside, Cambridge ("a")—CMI, 1949. m. 34, 455.
 17, 836 G. W. Beadle (37401a)—ATCC(9683)—NCTC(7045), 1945. X-ray mutant; assay of inositol.
 19, 419 G. W. Beadle (34486)—N. H. Horowitz, California—CMI, 1947. (= ATCC. 9277). X-ray mutant; assay of choline.
 19, 420 G. W. Beadle (33757)—N. H. Horowitz, California—CMI, 1947. (= ATCC. 9344). X-ray mutant; assay of leucine.
 19, 421 A. H. Doermann (4545)—N. H. Horowitz, California, CMI, 1947. (= ATCC. 10335). X-ray mutant; assay of lysine.
 24, 298 G. W. Beadle (9184)—ATCC(10333)—CMI, 1948. X-ray mutant; assay of aneurin.
 31, 288 G. W. Beadle (1633)—ATCC(9278)—CMI, 1948. X-ray mutant; assay of p-aminobenzoic acid.
 44, 244 G. W. Beadle (51505-3003-8A)—ATCC(10334), 1948. X-ray mutant; assay of proline.

Neurospora sitophila Shear & Dodge

- 21, 944 G. W. Beadle (299)—E. Barton Wright—NCTC(6813), 1944. X-ray mutant; assay of pyridoxin. (= ATCC. 9276).
 21, 946 W. H. Wilkins, Oxford, (2)—NCTC(6213), 1941. m. 21947, 21949, 24592.
 21, 947 W. H. Wilkins, Oxford (1)—NCTC(6212), 1941. m. 21946, 22810.
 21, 948 G. Smith—J. T. Duncan—NCTC(3590), 1932. m. 24592.
 21, 949 W. H. Wilkins, Oxford—NCTC(4009), 1933. m. 21946.
 22, 810 Dosootie, Peshawar, India, 1946. S. K. Sen Gupta—M. B. Ellis. m. 21947.
 24, 592 *Elaeis guineensis* stems, Benin, Nigeria, 1947. J. M. Waterston. m. 21946, 21948.
 34, 457 D. G. Catcheside, Cambridge ("A")—CMI, 1949. m. 34358.
 34, 458 D. G. Catcheside, Cambridge ("a")—CMI, 1949. m. 34457.

Neurospora tetrasperma Shear & Dodge

- 34, 454 D. G. Catcheside, Cambridge—CMI, 1949.

Nigrospora sphaerica (Sacc.) Mason

46, 685 *Dactylis glomerata*, Annerley Park, Notts., 1951. J. Webster.

Oedocephalum lineatum Bakshi

— see *Fomes annosus* Fr.

Oidiodendron griseum Robak

45, 947 Soil, Ampthill Forest Nursery, Beds., 1951. J. E. Brind (7. H. II).

50, 664 Soil, England, 1952. P. W. Brian (BRL. 783).

51, 454 Air, Cardiff, 1953. M. Richards (AARU. 24).

Oidiodendron nigrum Robak

— see *Trichosporium cerealis*.

Oospora citri-aurantii (Ferraris) Sacc. & Syd.

21, 190 Orange fruit, Mazoe, Southern Rhodesia. G. R. Bates—NCTC (3500) 1932.

Oospora crustacea (Bull.) Sacc.

— see *Sporendonema casei*.

Oospora fragrans Berk. var. *minuta* Berk.

17, 470 Bainier Coll'n—M. B. Church, Washington (4719. 2)—NCTC (1742), 1924.

Oospora humi (Mazé) Berk.

17, 469 Bainier Coll'n—M. B. Church, Washington 1419. 10)—NCTC (1743), 1924.

Oospora lactis (Fresen.) Sacc.

23, 312 Lactose, London, 1932. G. Smith (BB. 130)—CMI, 1948.

39, 573 Apple, Northern Ireland, 1950. C. H. Leach—A. E. Muskett.

42, 074 "Radiomalt", G. B., 1950. M. P. English.

45, 619 Faeces of diseased honey bee, Strawberry Hill, Middlesex, 1951. H. A. Dade.

50, 119 Baker's yeast, Epsom, Surrey, 1952. P. A. Dixon.

Oospora pustulans Owen & Wakefield

47, 720 Potato haulm, Harpenden, Herts., 1952. J. Moore.

Ophiobolus graminis (Sacc.) Sacc.

43, 349 Wheat, Cambridge, 1950. S. D. Garrett.

Ophiostoma piceae (Münch) H. & P. Syd.

— see *Ceratocystis piceae*.

Pachybasium candidum (Sacc.) Peyr.

40, 624 *Fagus sylvatica*, dead wood, Swinton Park, nr. Masham, Yorks., 1950. S. J. Hughes.

Paecilomyces elegans (Corda) Mason & Hughes

(Syn. *Spicaria elegans* Corda)

22, 573(a) *Betula periderm*, Richmond Park, Surrey, 1948. S. J. Hughes.

27, 616(a) Conifer wood, Roche Abbey, Yorks, 1948. S. J. Hughes.

Paecilomyces marquandii (Masse) Hughes(Syn. *Verticillium marquandii* Masse)

- 33, 204 *Hygrophorus virgineus*, Copmanthorpe, Yorks., 1948. K.G. Payne—W.G. Bramley.

Paecilomyces varioti Bain.

- 16, 196 Jute fibre, India, S.W. Basu (18)—CMI, 1947.
 17, 457 G. Smith. Isolation used for testing mould-proofing.
 25, 322 Oak, FPRL (S.15.c)—CMI, 1948.
 31, 388 *Encephalartos lehmannii*, Southern Rhodesia. G.R. Bates (7135A)—CMI, 1948.
 40, 025 Library paste, Storrs, Conn., U.S.A., 1904. C. Thom (34) as *Penicillium divaricatum* Thom (T)—NRRL(1115)—G. Smith.

Papularia arundinis (Corda) Fr.

- 27, 370 *Sambucus nigra*, Penglais woods, Aberystwyth, 1948. S.J. Hughes.

Papularia sphaerosperma (Pers. ex Fr.) v. Höhn.

- 16, 263 Contaminant of culture, Kew, 1947. H.A. Dade.

Parulaspora parasitica (Karst.) Hotson

- 14, 829 Pea seeds, Hoxby, Yorks., 1947. E. Yuill.

Parasitella simplex Bain.

- 41, 057 Blakeslee—CBS—CMI, 1950. (+) m.41, 058.
 41, 058 Blakeslee—CBS—CMI, 1950. (−) m.41, 057.

Penicillium aculeatum Raper & Fenn.

- 33, 773 Soil, Lakenheath Warren, Suffolk, 1948. J.H. Warcup (B.134).
 40, 588 (A) Textiles, Florida, U.S.A. W.H. Weston—NRRL(2129)—G. Smith, 1949.

Penicillium adametzi Zal.

- 39, 751 (T) Soil, under conifers, nr. Poznan, Poland. Zaleski—CBS—C. Thom(5010), 1928. NRRL(737)—G. Smith, 1949.
 51, 447(a) Soil, Durham, 1952. J.A. Richardson (10.R).

Penicillium albidum Sopp

- 40, 219 Janke—CBS—NRRL(2043)—G. Smith, 1949.

Penicillium asperum (Shear) Raper & ThomSyn. *Carpenteles asperum* Shear

- 39, 739 (T) Soil, Tela, Honduras, O.A. Reinking—C.L. Shear—NRRL(715). 1931—G. Smith.

Penicillium atramentosum Thom

- 39, 752 (T) Cheese, Storrs, Conn., 1945. C. Thom(38)—Biourge(116)—Thom(4733.3); NRRL(795)—G. Smith.

Penicillium aurantio-candidum Dierckx ex. Biourge

- 39, 814 (?T) Biourge (11)—C. Thom(4733/6); NRRL(884)—G. Smith, 1949.

Penicillium aurantio-violaceum Biourge

- 39, 740 Beech forest, Germany. Stapp & Bortels, as *P. roseo-viridum* (T), —C. Thom, 1935; NRRL(760)—G. Smith.

- Penicillium aurantio-virens* Biourge
 34,846(i) (T) Biourge—LSH (P.152)—CMI, 1949.
 34,846(ii) (T) Biourge—LSH (P.152)—NRRL(2138)—G. Smith—CMI, 1950.
- Penicillium avellaneum* Thom & Tur.
 28,041 (?T) Bear dung, Seattle, U.S.A., 1915. Turesson—M. B. Church (4010.5)—NCTC(984).
 40,230 (A) Soil, San Antonio, Tex., U.S.A., 1943. K. Raper & C. Thom—NRRL(1938)—G. Smith.
- Penicillium baarnense* v. Beyma
 40,590 (T) Soil, Baarn, Holland. Van Beyma—CBS—NRRL(2086)—G. Smith—CMI, 1950.
 45,477 Soil, Cambridge, 1950. J. H. Warcup (E.115).
- Penicillium bacillosporium* Swift
 40,045 (T) Begonia leaf, New York City, M. E. Swift—NRRL(1025)—G. Smith, 1949.
- Penicillium biforme* Thom
 39,820 (T) Cheese, U.S.A., 1904. C. Thom (38); NRRL(895)—G. Smith.
- Penicillium brefeldianum* Dodge
 40,592 Canada. W. I. Ilman—NRRL(2083)—G. Smith, 1949.
- Penicillium brevi-compactum* Dierckx
 17,456 G. Smith—CMI, 1947. Isolation used for testing mould-proofing.
 40,225 Biourge—CBS—NRRL(2011)—G. Smith, 1949.
 51,447(b) Soil, Durham, 1952. J. A. Richardson (10.R).
- Penicillium camemberti* Thom
 27,831(i) (T) French Camembert cheese, Storrs, Conn., U.S.A., 1904. C. Thom—NCTC(582), 1920. (= NRRL.877).
 27,831(ii) (T) as above. NRRL(877)—G. Smith, 1949.
- Penicillium canescens* Sopp
 28,260 Soil, England. E. Dale—C. Thom (2654), 1910—NRRL(910)—G. Smith. (= NCTC.6607).
 29,096 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup(B.108).
 29,191 CBS—G. Smith—CMI, 1948.
- Penicillium capsulatum* Raper & Fenn.
 40,576 (T) Optical instrument, Panama Canal Zone. W. G. Hutchinson—W. H. Weston—NRRL(2056), 1945—G. Smith.
- Penicillium carmino-violaceum* Dierckx
 36,281 CBS—H. G. Hind—NCTC(5848), 1939.
- Penicillium carneo-lutescens* G. Smith
 40,218 (T) Hops, England, 1939. G. Smith—CBS—NRRL(2035)—G. Smith.
- Penicillium casei* Staub
 39,766 Swiss cheese, U.S.A., C. Thom(5056); NRRL(844)—G. Smith, 1949.

Penicillium caseicola Bain.

- 27, 832 Cheese, W. Europe. M. B. Church, Washington(6)—NCTC(583), 1920.
 27, 833 Cheese, Switzerland—A. C. Thaysen—NCTC(602), 1920 (= Raistrick Ad. 25).
 28, 810 (?T) Bainier Coll. —C. Thom (4640. 440)—NRRL(875)—G. Smith, 1949. (= NCTC. 1717).

Penicillium charlesii G. Smith

- 40, 232 (T) G. Smith—NRRL(1887), 1942—G. Smith.

Penicillium chermesinum Biourge

- 40, 577 NRRL(2049)—G. Smith, 1949.

Penicillium chrysitis Biourge

- 28, 259 K. B. Raper (NRRL. 1054)—NCTC(6610), 1943.

Penicillium chrysogenum Thom

- 24, 314 (T) C. Thom (26); NRRL(807)—G. Smith, 1949.
 26, 210 K. B. Raper (NRRL. 1951. B. 25)—NCTC(7088), 1948. (= ATCC. 10, 238). Penicillin production, submerged culture, 200-250 u/ml. Derived from NRRL. 1951 (IMI. 40, 233).
 26, 211 K. B. Raper (NRRL. 2000, Demerec X-1612)—NCTC(7089), 1945. X-ray mutant from NRRL. 1951. B. 25 (IMI. 26210). (= ATCC. 10, 003). Penicillin production, submerged culture, 400-500 u/ml.
 28, 805 CBS—T. K. Walker—NCTC(3357), 1931. Said to produce citric acid.
 37, 767 Johnson et al. (Wisconsin Q. 176)—G. Smith—CMI, 1949. (= ATCC. 10, 002). UV mutant from X. 1612 (IMI. 26211). Penicillin production, submerged culture, 900-1000 u/ml.
 39, 324 Laxa (as *P. fluorescens* nom. nud.)—NRRL(819), 1933—NCTC (6621).
 40, 233 Canteloupe, Peoria, Ill., U. S. A., 1943. NRRL(1951)—G. Smith.

Penicillium citreo-viride Biourge

- 40, 575 Military equipment. NRRL(2046)—G. Smith.

Penicillium citrinum Thom

- 16, 199 Jute fibre, India. S. W. Basu(37)—CMI, 1948.
 24, 306 F. T. Brooks, Cambridge—Raistrick(Ad. 23)—NCTC(3951), 1931.
 24, 307 Cotton fabric, Shirley Inst., 1928. L. D. Galloway—Raistrick (Ad. 114)—NCTC(3952), 1931. Citrinin production.
 39, 756 Cairo, Egypt. G. Sabut—NRRL(806), 1932—G. Smith.
 44, 337 Geo. Smith(Ac. 27). Production of citrinin.
 49, 122 Contaminant of culture, Njala, Sierra Leone, 1951. F. C. Deighton (M. 4663).

Penicillium claviforme Bain.

- 28, 042 Bainier Coll. —Da Fonseca—Thom(4640. 441)—NCTC(1718), 1923.
 40, 237 CBS—NRRL(2031)—G. Smith, 1949.
 44, 744 Contaminant of culture, Nottingham, 1950. B. Webster.
 50, 744 Contaminant of culture, Kew, Surrey, 1952. J. Hawkins.

Penicillium clavigerum Demel.

- 39, 807 Canada, 1934. G. R. Bisby—NRRL(1003)—G. Smith.

Penicillium commune Thom

39,812 (T) Cheese, Storrs, Conn., U.S.A., 1904. C. Thom(23); NRRL(890)—G. Smith.

Penicillium corylophilum Dierckx

39,754 (?T) Dierckx—Biourge(78)—C. Thom(4733.42), 1924; NRRL(802)—G. Smith.

Penicillium corymbiferum Westl.

40,213 Green fly, Baarn, Holland, 1941. CBS—NRRL(2031)—G. Smith.

Penicillium crustosum Thom

39,811 Wuchang, China. Y.K. Shih—C. Thom(5461.448), 1934; NRRL(968)—G. Smith.

Penicillium cyaneo-fulvum Biourge

39,764 (T) Biourge—C. Thom(4733.47), 1924—NRRL(837)—G. Smith.

Penicillium cyaneum (Bain. & Sart.) Biourge

39,744 (?T) Bainier Coll. (As *Citromyces cesiae* Bain. & Sart.)—Thom(4640.422); NRRL(775)—G. Smith, 1949.

Penicillium cyclopium Westl.

19,759 Hyacinth bulbs, England, 1947. A.S. Boughey—CMI, 1947.
24,318 Ventriculus of honey-bee, 1948. H.A. Dade.
39,803 Biourge—C. Thom(4733.48)—NRRL(942)—G. Smith, 1949.
40,236 H.W. Florey (M-22)—NRRL(1899)—G. Smith, 1949. Produces penicillic acid.
51,355 Bentonite, G.B. M.E. Adams (DSIR), (62).

Penicillium cyclopium Westl. var. *echinatum* Raper & Thom

40,028 Contaminant in culture, Ottawa, Canada. G.A. Ledingham—K.B. Raper(NRRL.1151), 1940—G. Smith.

Penicillium daleae Zal.

34,910 (T) Zaleski—CBS—NRRL(2025)—G. Smith, 1949. (= ATCC.10435).

Penicillium decumbens Thom

39,755 Knoxville, Tenn., U.S.A. C.D. Sherbakoff—NRRL(742), 1933—G. Smith.
50,575 Raspberries, Scotland, 1952. C.E. Foister (isolate 4).

Penicillium digitatum Sacc.

37,880 Orange fruit, Harrow, Middlesex, 1949. J. Hawkins.
39,748 Citrus, Storrs, Conn., U.S.A., 1904. C. Thom(176); NRRL(786)—G. Smith.

Penicillium divaricatum Thom

— see IMI.40025 *Paecilomyces varioti*.

Penicillium diversum Raper & Fenn.

40,579 (A) Leather, U.S.A. T.C. Gordon—NRRL(2121)—G. Smith.

Penicillium diversum Raper & Fenn. var. *aureum* Raper & Fenn.

40,031 (T) U.S.A. R.W. Davidson—K.B. Raper(NRRL.1074), 1934—G. Smith.

Penicillium duclauxii Delacr.

- 24, 312 (A) Delacroix, France—Thom (20)—M. B. Church—NCTC(581), 1920 (= Raistrick Ad. 63).
 29, 214 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup (B. 43).
 40, 210 Tentage, New Guinea. W. Lawrence White—NRRL(2020)—G. Smith, 1949.

Penicillium duponti Griffon & Maubl. emend. Emerson

- 48, 593 (A) Retting guayule, Salinar, Cal., U.S.A., 1945. R. Emerson—NRRL(2155)—ATCC(10, 518)—CMI, 1952.

Penicillium egyptiacum v. Beyma

- 40, 580 (T) Van Beyma—CBS—NRRL(2090)—G. Smith.

Penicillium ehrlichii Kleb.

- 39, 737 (T) Germany. F. Ehrlich—Klebahn—NRRL(708), 1931—G. Smith.
 44, 919 Soil, Kettering, Northants., 1950. J. H. Warcup(E. 106).

Penicillium expansum Link emend. Thom

- 24, 315 Apple, U.S.A. M. B. Church, Washington (4189)—NCTC(593), 1920.
 28, 619 New Zealand. J. C. Neill(837)—NCTC(5612), 1938.
 32, 185 Apple, Richmond, Surrey, 1948. H. A. Dade.
 37, 128 Contaminant of culture, CMI, Kew, Surrey, 1949. G. M. Waterhouse. Antagonistic to *Phytophthora*.
 39, 761 Apple, U.S.A., 1926. J. S. Cooley—C. Thom(4852); NRRL(976)—G. Smith.

Penicillium fellutanum Biourge

- 29, 098 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup(B. 41. a) .
 39, 734 U.S.A. O. W. Richards—NRRL(746), 1935—G. Smith.

Penicillium frequentans Westl.

- 40, 234 G. Smith(Ad. 6)—NRRL(1915)—G. Smith, 1949.
 46, 814 Soil, Britain, 1948. E. G. Jeffreys—P. W. Brian(532). Production of frequentin.
 49, 673 Starch paste adhesive, London, 1952. H. A. Dade.

Penicillium funiculosum Thom

- 34, 912 Air contaminant, Washington, D.C., U.S.A., 1940. NRRL (1032A)—G. Smith (= ATCC. 10445).
 40, 235 Soil, U.S.A., 1941. C. W. Hesseltine—NRRL(1768)—G. Smith.
 40, 582 Guam. R. E. Shope—NRRL(2075), 1946—G. Smith. Variant isolation.

Penicillium fuscum (Sopp) Raper & Thom

- 39, 747 (A) Soil, Texas, U.S.A. M. B. Morrow—Raper & Thom(NRRL. 721), 1930—G. Smith.

Penicillium glabrum (Wehm.) Westl.

- 28, 043 A. Jorgensen's Lab., Copenhagen (As "*Citromyces* B. Wehmer")
 —A. C. Thaysen—NCTC(606), 1920. (= Raistrick Ad. 6 & Ad. 67).

Penicillium gladioli McCull. & Thom non Machacek

- 34, 911 *Gladiolus* corm, U.S.A. L. McCulloch—Thom(4885), 1930;
 NRRL(939)—G. Smith.

- 38, 567 *Gladiolus* corms, Cambridge. F. T. Brooks—Raistrick (Ad. 65)—NCTC(3994), 1931.

Penicillium godlewskii Zal.

- 40, 591 (T) Soil under pines, Poland. Zaleski—CBS—NRRL(2111)—G. Smith.

Penicillium granulatum Bain.

- 40, 220 Soil, Peoria, Ill., U.S.A., 1942. NRRL(2036)—G. Smith.

Penicillium helicum Raper & Fenn.

- 40, 593 (T) Soil, Sweden. E. Velander—NRRL(2106)—G. Smith.

Penicillium herquei Bain.

- 28, 809(i) (T) *Aguaria pyrifolia* leaves, France. Herque—Bainer Coll. — Da Fonseca—Thom(4640.447)—NCTC(1721), 1932.
28, 809(ii) As above, but via NRRL(1040)—G. Smith, 1949.

Penicillium humuli van Beyma

- 39, 817 (T) Hops, Weihenstephan, Germany, H. Schnegg—van Beyma—CBS—NRRL(872), 1938—G. Smith.

Penicillium implicatum Biourge

- 40, 578 NRRL(2054)—G. Smith, 1949.

Penicillium islandicum Sopp

- 31, 250 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup (B. 14).
40, 042 F. M. Putterill, Cape Town, S. Africa—Thom(4658.144.2)—NRRL(1036)—G. Smith, 1949.

Penicillium italicum Wehm.

- 28, 803 Orange, Mazoe, Southern Rhodesia. G. R. Bates—NCTC(3499), 1932.
39, 760 Citrus, California, U.S.A. H. S. Fawcett—NRRL(983), 1930—G. Smith.

Penicillium janczewskii Zal.

- 29, 100 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup (B. 25).

Penicillium janthinellum Biourge

- 29, 097 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup (B. 93).
40, 238 Soil, Nicaragua, 1945. NRRL(2016)—G. Smith,

Penicillium javanicum van Beyma

- 39, 733 (T) Tea roots, Java. Van Beyma—NRRL(707)—G. Smith, 1949.

Penicillium jenseni Zal.

- 39, 768 (T) Poland. Zaleski—CBS—Thom(5010.10), 1928—NRRL(909)—G. Smith.

Penicillium kapuscinskii Zal.

- 40, 567 (?T) Soil, Poland. Zaleski—CBS—NRRL(2147), 1946—G. Smith

Penicillium lanoso-coeruleum Thom

- 39, 818 (T) Contaminant of culture. Thom(2543a)—NRRL(888)—G. Smith, 1949.

Penicillium lanoso-griseum Thom

39, 822 (T) Leaf mould, nr. Bussum, Holland, 1913. C. J. Koning—Thom (2746. 2); NRRL(894)—G. Smith.

Penicillium lanoso-viride Thom

39, 819 (T) Glycerine still, Ardeer, Scotland. J. H. Birkinshaw—Thom (5034. 12) 1939; NRRL(879)—G. Smith.

Penicillium lanosum Westl.

40, 224 (T) Westling—CBS—NRRL(2009)—G. Smith, 1949.

Penicillium lapidosum Raper & Fenn.

39, 743 (T) Canned blueberries, U. S. A., 1938. E. J. Cameron et al. — NRRL(718)—G. Smith.

47, 704 J. H. Warcup—CMI, 1951.

Penicillium lavendulum Raper & Fenn.

40, 570 (T) Contaminant of culture, Peoria, Ill., U. S. A., 1947. NRRL (2146)—G. Smith.

Penicillium levitum Raper & Fenn.

39, 735 (T) Modelling clay, U. S. A. B. O. Dodge—NRRL(705), 1936, — G. Smith.

Penicillium lilacinum Thom

27, 830 (T) Soil, U. S. A. Thom (8)—NRRL(895)—G. Smith, 1949. (= NCTC. 584, ATCC. 10144).

28, 811 Bainier Coll. Thom—Raistrick (Ad. 32)—NCTC(1719a), 1931.

29, 102 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup (B. 17).

Penicillium lividum Westl.

39, 736 (A) Scotland. E. Dale—Thom(2697), 1913—NRRL(754)—G. Smith, 1949.

Penicillium luteum Zukal

40, 048 Soil, Winnipeg, Canada, 1933. G. R. Bisby—Thom(5357. 208)—CBS—NRRL(2102), 1946—G. Smith.

40, 773 Soil, Lakenheath Warren, Suffolk, 1946. J. H. Warcup (B. 65).

44, 338 G. Smith (Ad. 30). Production of luteic acid.

Penicillium martensii Biourge

40, 211 Baarn, Holland. CBS—NRRL(2027)—G. Smith, 1949.

44, 917 Honey bee, Kirton, Boston, Lincs. B. A. Cooper.

Penicillium meleagrinum Biourge

39, 762 Ayrshire, Scotland. J. H. Birkinshaw—Thom (5034. 53), 1929—NRRL(836)—G. Smith, 1949.

Penicillium melinii Thom

40, 216 (? T) Soil, U. S. A. Melin—Thom—CBS—NRRL(2041)—G. Smith, 1949.

Penicillium miczynskii Zal.

40, 030 (T) Earth under conifers, Poroniec, Tatry Mts., Poland.

Zaleski—CBS—NRRL(1077), 1928, —G. Smith.

Penicillium multicolor Grigor.-Man. & Por.

39, 742 K. B. Raper (NRRL. 764)—G. Smith, 1949.

40, 574 Textiles, Florida, U. S. A. W. H. Weston—NRRL(2058), 1946—G. Smith.

Penicillium nalgoviense Laxa

39, 804 (T) Ellischauer cheese, Nalzovy, Czechoslovakia. Laxa—Thom(5337.2), 1933, NRRL(911)—G. Smith, 1949.

Penicillium namyslowskii Zal.

40, 033 (T) Earth under pines, Puszcza Bialowieska forest, Poland. Zaleski—CBS—Thom(5010.16), 1928, —NRRL(1070)—G. Smith.

Penicillium nigricans Bain. ex Thom

39, 767 (T) Bainier Coll. —Thom(4640.448), 1922—NRRL(915)—G. Smith.

Penicillium notatum Westl.15, 378 Contaminant of culture, London, 1928. Sir Alexander Fleming's historical isolation. Fleming—Thom(144.5112.1) as *P. rubrum*. NRRL(824)—G. Smith. (= ATCC. 9478). Gives high yield of notatin.

17, 968(1) K. B. Raper (NRRL. 832)—NCTC(7087), 1945. Penicillin production, submerged culture. (= ATCC. 9179, Thom 144. B. 69).

17, 968(2) = 17, 968(1), but received via D. J. D. Hockenhull—J. H. Birkinshaw.

17, 969 K. B. Raper (NRRL. 1249. B. 21)—NCTC(7086), 1945, —CMI, 1947. Strain derived by monospore selection from Fleming's isolation (IMI. 15378) (= ATCC. 9178). Penicillin production, surface culture.

24, 309 Orange, Persia, 1944. M. Zorriassatein (Z.1. Teheran)—NCTC (7038), 1945.

24, 310 Orange, Persia, 1944. M. Zorriassatein (Z. 6. Teheran)—NCTC (7039), 1945.

24, 317 Sir A. Fleming (85/4)—NCTC(6978), 1945.

38, 632 Pontecorvo (W. 3. Cyst.)—D. J. D. Hockenhull—J. H. Birkenshaw—CMI, 1949.

39, 759 (T) Hyssopus branches, Norway. Westling—C. Thom(2541)—NRRL(821)—G. Smith, 1949.

Penicillium novae-zeelandiae v. Beyma

38, 496 Soil, Saddlescombe, Sussex, 1949. J. H. Warcup (SLI/3)—CMI, 1949.

40, 584 (T) Fruit body of *Sclerotinia* sp., New Zealand. J. C. Neill—CBS (v. Beyma 684)—NRRL(2128)—G. Smith.*Penicillium ochraceum* Bainier ex Thom

39, 823 Biourge—NRRL(871)—G. Smith, 1949.

Penicillium ochro-chloron Biourge

39, 806 Copper sulphate solution, Seattle, Wash., U. S. A. Hotson—NRRL(926)—G. Smith, 1949.

Penicillium olivino-viride Biourge

40, 223 (A) Biourge—CBS—NRRL(2028)—G. Smith, 1949.

Penicillium oxalicum Currie & Thom

39, 750 S. A. Hall—NRRL(790), 1934—G. Smith.

Penicillium palitans Westl.

40, 215 (? T) Westling—CBS—NRRL(2033), 1946—G. Smith.

Penicillium pallidum G. Smith

40, 214 (T) Yarn, England. G. Smith(76)—NCTC—NRRL(2037)—G. Smith, 1949. (= ATCC. 10478).

51, 240(b) (A) *Persea gratissima*, associated with Scolytid beetles, Seychelles, 1952. G. S. Brown.

Penicillium parvum Raper & Fenn.

40, 587 (T) Soil, Nicaragua. NRRL(2095), 1945, —G. Smith.

Penicillium patulum Bain.

(Syn. *P. urticae* Bain.)

28, 808 Bainier Coll. —Thom(4640.454)—NCTC(1722), 1932. (= NRRL. 994, ATCC. 9260).

34, 908 G. Smith (P. 189)—CMI, 1949. Patulin production.

34, 909 Raistrick (Ad. 77)—G. Smith—CMI, 1949. Patulin production.

39, 809 Bainier—Thom (4640.455)—NRRL(989), as *P. urticae* Bain.

(A)—G. Smith, 1949.

Penicillium paxilli Bain.

40, 226 Optical instrument, Barro, Colorado I., Panama. W. G.

Hutchinson—W. H. Weston—NRRL(2008)—G. Smith, 1949.

Penicillium phoeniceum v. Beyma

40, 585 (T) V. Beyma—CBS—NRRL(2070), 1946—G. Smith.

Penicillium piceum Raper & Fenn.

40, 038 (T) K. B. Raper (NRRL. 1051)—G. Smith, 1949.

Penicillium pinophilum Hedge.

28, 044 (T) Pine timber, U. S. A. Hedgcock—M. B. Church, Washington (1)—NCTC(1151), 1921. (= Raistrick Ad. 41).

22, 813 Dosootie, Karachi, India, 1946. Sen Gupta (Kanpur 364).

Penicillium piscarium Westl.

29, 101 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup(B. 24).

40, 032 (T) Cod liver oil. Westling—Thom (2549), 1911, —NRRL(1075) —G. Smith.

Penicillium puberulum Bain.

34, 913 Raistrick (Ad. 113)—G. Smith—CMI, 1949. (= NRRL. 1889, ATCC. 8732).

40, 222 Zea mays, U. S. A. Thom—CBS—NRRL(2040), 1946, —G. Smith.

Penicillium pulvillorum Turf.

29, 215 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup(B. 42).

40, 595 U. S. A. J. W. Foster—NRRL(2082), 1944—G. Smith.

Penicillium purpurogenum Stoll

40, 037 Darien, Manchuria, K. Saito—Thom(4279C), 1918—NRRL(1061) —G. Smith.

Penicillium purpurogenum var. *rubri-sclerotium* Thom

40, 035 Harvard, U. S. A. R. M. Wheldon—NRRL(1066), 1941, —G. Smith.

- Penicillium purpurrescens* (Sopp) Biourge
33, 774 Soil, Lakenheath Warren, Suffolk, 1947. J.H. Warcup (.129).
39, 745 (T) Soil, Canada. G.R. Bisby—NRRL(720), 1938. —G. Smith.
- Penicillium putterillii* Thom
40, 212 (A) Timber, New Zealand. J.C. Neill—CBS—NRRL(2150),
1946—G. Smith.
- Penicillium raciborskii* Zal.
40, 568 (?T) Soil, Poland. Zaleski—CBS—NRRL(2150), 1946—G.
Smith.
- Penicillium raistrickii* G. Smith
40, 2219 (T) Cotton yarn, England, ca 1927-29. G. Smith (100)—NRRL
(2039)—G. Smith.
- Penicillium resticulosum* Birk., Raist. & G. Smith
40, 227 (T) Contaminant of culture, London. G. Smith (P-47)—NRRL
(2021)—G. Smith, 1949.
- Penicillium restrictum* Gilm. & Abbott
40, 228 Soil, Honduras, 1937. E. M. Gilbert—E. McCoy—NRRL(1748)—
G. Smith.
- Penicillium rolfsii* Thom
40, 029 (T) Pineapple, Miami, Fla., U.S.A. P.H. Rolfs—Thom(32)—
NRRL(1078)—G. Smith, 1949.
- Penicillium roqueforti* Thom
24, 313(1) (T) Roquefort cheese, 1904. Thom(18)—NCTC(588), 1920.
(= NRRL. 849, ATCC. 10110).
24, 313(2) As above. NRRL(849)—G. Smith, 1949.
- Penicillium roseo-purpureum* Dierckx
33, 771 Soil, Lakenheath Warren, Suffolk, 1947. J.H. Warcup (B. 94).
40, 573 (?T) Biourge—CBS—NRRL(2064), 1946—G. Smith.
- Penicillium rotundum* Raper & Fenn.
40, 589 (T) Wood, Chiriqui Prov., Panama. G.W. Martin—NRRL(2107),
1946—G. Smith.
- Penicillium rubrum* Stoll
40, 036 Paper, Washington, D.C., U.S.A. NRRL. 1062, 1930, —G.
Smith.
- Penicillium rugulosum* Thom
40, 041 (T) Culture, Storrs, Conn., U.S.A. C. Thom(46)—NRRL(1045)—
G. Smith, 1949.
- Penicillium sacculum* Dale
51, 498 Soil, New S. Wales, 1952. S. Marcus—G. Smith.
- Penicillium sclerotiorum* v. Beyma
40, 569 (T) ?Air, Buitenzorg, Java. Boedijn—van Beyma—CBS—NRRL
(2074), 1945—G. Smith.

Penicillium simplicissimum (Oud.) Thom

- 39, 816 Flannel bag, S. Africa. E. M. Laughton—NRRL(902)—G. Smith, 1949.

Penicillium solitum Westl.

- 39, 810 (?T) Westling—Thom(2546)—NRRL (937)—G. Smith, 1949.

Penicillium soppii Zal.

- 40, 217 (T) Soil, Poland. Zaleski—CBS—NRRL(2023)—G. Smith, 1949.

Penicillium spiculisporum Lehm.

- 40, 043 U. S. A. C. W. Emmons—NRRL(1028), 1937, —G. Smith.
44, 279 Soil, Kettering, Northants., 1950. J. H. Warcup(E. 116).

Penicillium spinulosum Thom

- 24, 316(1) (T) Contaminant of culture, Hanover, Germany. Thom(45)—NCTC(591), 1920 (= Raistrick Ad. 29).
24, 316(2) As above, via H. C. Greene—NRRL(1750)—G. Smith, 1949.
29, 467(a) In a solution of p-diguanidino-benzoyl-L-glutamic acid hydrochloride, Oxford. P. M. Cowan—CMI, 1948.
42, 237 In N/10 sulphuric acid. Guildford, Surrey, 1950. N. Carter.

Penicillium steckii Zal.

- 40, 583 Textiles, Barro Colorado I., Panama. W. H. Weston—NRRL (2140)—G. Smith.

Penicillium stipitatum Thom ex Emmons

- 39, 805 (T) Rotting wood, Louisiana, U. S. A., 1931. T. C. Sheffer—Thom(NRRL. 1006)—G. Smith.

Penicillium stoloniferum Thom

- 31, 200 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup(B. 9).
39, 824 (T) Rotting mushrooms, Storrs, Conn., U. S. A., 1904. Thom (27); NRRL(859)—G. Smith.

Penicillium striatum Raper & Fenn.

- 39, 741 (T) Canned blueberries, U. S. A., 1938. C. C. Williams et al. —NRRL(717).
44, 611 Soil, Brandon Park, Sussex, 1950. J. H. Warcup (B. 181) —G. Smith.

Penicillium sublateralitium Biourge

- 40, 594 (T) Biourge—CBS, 1929, —NRRL(2071)—G. Smith.

Penicillium tardum Thom

- 28, 333 (A) Bainier Coll. —Da Fonseca—Thom—NCTC(1719), 1923.
40, 034 (T) Dead twigs, France. Bainier—Thom(4640. 444)—NRRL(1073) —G. Smith, 1949.

Penicillium terlikowskii Zal.

- 29, 099 Soil, Lakenheath Warren, Suffolk, 1947. J. H. Warcup (B. 41).
40, 572 P. W. Brian—NRRL(2067), 1945, —G. Smith.

Penicillium terrestre Jens.

- 28, 040 Cake, NCTC, 1920. NCTC(763) (= Raistrick Ad. 4).

- 28, 806 Apple, Berlin. T. Matsumoto (as *P. glaucum*)—NCTC(2515), 1928.
 39, 808 Utah, U.S.A., 1929. Logan—Thom(5042.135)—NRRL(934)—G. Smith.

Penicillium thomii Maire

- 31, 397 Decayed apples, Southern Rhodesia. G. R. Bates(7644. G)—CMI, 1948.
 40, 027 Air, Natick, Mass., U.S.A. D. H. Lindner—NRRL(1640)—G. Smith, 1949.
 49, 057 Contaminant of culture, CMI, Kew, Surrey, 1952. S. J. Hughes.

Penicillium trzebinskii Zal,

- 39, 749 (T) Forest soil, Poland. Zaleski—CBS—C. Thom(5010. 27), 1928—NRRL(731)—G. Smith.

Penicillium turbatum Westl.

- 39, 738 (T) Westling—Thom(2545), 1911—NRRL(757)—G. Smith.

Penicillium urticae Bain.

- see *P. patulum* Bain.

Penicillium variabile Sopp

- 40, 040 Coconut matting, Johannesburg, S. Africa. J. H. Bowen—NRRL(1048), 1938—G. Smith.
 48, 843 Maize grain, Southern Rhodesia, 1951. W. E. Kerr (G. 36).

Penicillium varians G. Smith

- 40, 586 (T) Cotton yarn, England. G. Smith(91)—NRRL(2096)—G. Smith.

Penicillium velutinum v. Beyma

- 40, 571 (T) Sputum, Holland. V. Beyma—CBS—NRRL(2069), 1946, —G. Smith.

Penicillium vermiculatum Dangeard

- 38, 497 Soil, Amphill Forest Nursery, Beds., 1949. J. H. Warcup (E. 17).
 39, 043 Soil, Nigeria, 1949. A. M. Reid.
 40, 046 Tucson, Ariz., U.S.A. K. D. Butler—NRRL(1019)—G. Smith, 1949.
 40, 581 Soil, São Paulo, Brazil, 1945. NRRL(2100)—G. Smith.
 45, 635 Ananas sativus fruit rot, Nairobi, Kenya. R. M. Nattrass(1358).
 49, 125 Contaminant of culture, Njala, Sierra Leone, 1951. F. C. Deighton (M. 4666).

Penicillium verruculosum Peyronel

- 40, 039 Soil, Texas, U.S.A. M. B. Morrow—NRRL(1050), 1930, —G. Smith.

Penicillium vinaceum Gilm. & Abbott

- 28, 956 Soil, U.S.A. Thom(5541. L. 40)—NRRL(740) —NCTC(6518), 1943.
 29, 189 (T) Soil, Utah, U.S.A. Gilman & Abbott—Thom(4894. 15), 1927, —NRRL(739)—G. Smith, 1949. (= Raistrick. 10514).

Penicillium viridicatum Westl.

- 39, 758 Air, Washington, D. C., U.S.A., 1940. NRRL(963)—G. Smith.

49,096 *G. G. Freeman*. (F. 22)—CMI, 1952.

Penicillium waksmani Zal.

39,746 (T) *Zaleski*—CBS—Thom(5010.36), 1928; NRRL(777)—G. Smith.

Penicillium wortmannii Klöck.

31,389 Sunn hemp seeds, Southern Rhodesia. *G. R. Bates*(7549a)—CMI, 1948.

40,047 (T) Soil, Denmark. *A. Klöcker*—*Biourge*(401)—Thom(4733.126.1), 1924—NRRL(1077)—G. Smith.

44,277 Soil, Kettering, Northants., 1950. *J. H. Warcup*(E.97).

Periconia circinata (Mang.) Sacc.

7,301 Wheat roots, Harpenden, Herts., 1937. *M. D. Glynne*.

Periconia macrospinoso *Lefebvre & Johnson*

24,411 Soil, Lakenheath Warren, Suffolk, 1948. *J. H. Warcup*(B.145).

45,923 Wheat rhizosphere, France. *C. & H. Moreau* (*Mycothèque*, Paris, 231)—CMI, 1951.

Pericystis apis *Maass*.

29,422 Honey bee larva, Buntingford, Herts., 1948. *H. A. Dade*.

35,650 Honey bee larva, England, 1949. *H. A. Dade*.

Pestalotia sp.

23,987 Soil, Rothamsted, Herts., 1920. *S. T. Jewson*—NCTC(1447), 1922.

Petriella asymmetrica *Curzi*

38,601 (T) *Pyrus communis*, dry branches, Italy. *Curzi*—CBS—CMI, 1949.

37,161 (?T) *Pyrus communis*, dry branches, Italy. *Curzi*—CBS—Leeds Univ.—*C. G. C. Chesters*—*M. E. James*. (Identity doubtful).

38,760 Tomato roots, Cheshunt, Herts., 1949. *M. Ebben* (11)—*P. H. Williams*—*E. M. Wakefield*.

Pezicula livida (Berk. & Br.) *Rehm*

51,227 Stem of Norway spruce, Allerson Forest, Yorks., 1952. *S. Batko*—*R. W. G. Dennis*.

Phaeoscopulariopsis paisii (Pollacci) *Ota*

— syn. *Torula paisii* *Pollacci*

36,480 (T) *Pollacci*—CBS—CMI, 1949.

Phialophora fastigiata (Lagerb. & Melin) *Conant*

21,623 *Fritz*—CBS—CMI, 1948.

Phialophora verrucosa *Medlar*

21,160 (T) Man. *Medlar* (133), 1915. Inst. *Oswaldo Crux*, Rio de Janeiro—Lab. *Microbiol.*, São Paulo—*O. Klatz*, Toronto—NCTC (3366).

21,191 Man, Texas, U. S. A. *F. D. Weidman* (2261)—NCTC(3531), 1932. (= ATCC. 4806).

Philocopra setosa (Wint.) Sacc.

- 34, 172 Soil, Lakenheath Warren, Suffolk, 1948. J. H. Warcup (B. 161).
40, 423 W. M. Page—CMI, 1950.

Phoma alternariaceum Brooks & Searle

- 17, 361 (T) Tomato, England, 1915. F. T. Brooks—NCTC(1135).

Phoma betae Frank

- 52, 777 R. V. Tipler (K. 33)—CMI, 1953.

Phoma eupyrena Sacc.

- 44, 772 Soil, Ampthill Forest Nursery, Beds., 1950. J. H. Warcup
(104. A. 10/3).
45, 944 Soil, Ampthill Forest Nursery, Beds., 1951. J. E. Brind (8. S. II. 1).

Phoma glomerata (Corda) Wollenw. & Hoch

- 46, 259 Eucalyptus saligna yard pole, S. Africa. T. R. L. (24)—FPRL
(S. 601)—CMI, 1951.

Phoma insidiosa Tassi

- 47, 244(b) Sorghum vulgare, Southern Rhodesia, 1951. E. A. Riley
(MR. 10, 133(b)).

Phoma pigmentivora Massee

- 49, 273 England. R. K. S. Wood—Q. M. C. C. (502)—CMI, 1952.
49, 948 White lead paint, England. R. K. S. Wood—CMI, 1952.

Phoma sp.

- 49, 473 A sponge, England. Prof. Maskell—C. J. Hickman—CMI, 1952.

Phomopsis tuberivora Güssow & Foster

- 38, 386 Potato tubers, Hertfordshire, 1949. J. V. Ives.

Phycomyces blakesleeianus Burgeff

- 21, 156 CBS (B. 1)—NCTC(5853), 1939. (+) m. 22191
22, 191 CBS—NCTC(4941), 1936. (-) m. 21156.
44, 142 Linneman, Göttingen—J. Webster, 1950. (-) m. 21156.
51, 077 Coconut meal, Bristol, 1952. D. J. Parry.

Phycomyces nitens (Agardh) Kunze ex Fr.

- 13, 707 Spilled oats, Liverpool, 1947. K. G. Smith.
21, 998 W. H. Wilkins, Oxford—NCTC(2894), 1929. (+).
21, 999 W. H. Wilkins, Oxford—NCTC(2895), 1929. (-).
31, 598 Decaying wasp nest, Rademon Estate, Co. Down, Northern
Ireland, 1948. G. M. Waterhouse.
44, 751 Refuse on warehouse floor, Hull. D. A. Gibson, (H. 370).

Physalospora miyabeana Fukushi

- 21, 220 Willow, England, 1926. R. M. Nattrass(34)—CBS—Ivimey-Cook—
NCTC(3385), 1931. (Sterile.)

Physalospora obtusa (Schw.) Cooke

- 38, 560 Cupressus, Kenya, 1949. R. M. Nattrass (1207):

Physarum polycephalum Schw.

45, 623 CBS (Seifritz)—J. Webster—CMI, 1951.

Phytophthora arecae (Colem.) Pethyb.

42, 790 Areca catechu fruit, N. Kanara, Bombay, India. B. N. Uppal—M. K. Patel (Nilekani strain +ve)—CMI, 1950.

Phytophthora boehmeriae Saw.

32, 199 Citrus fruit, Bella Vista, Argentina, 1939. M. J. Frezzi—J. T. Middleton (2056).

Phytophthora cactorum (Leb. & Cohn) Schroet.

21, 168 R. T. Tabor, 1921—E. M. Blackwell—NCTC(2082).

32, 031 NCTC(3066)—C. E. Foister.

40, 534 Lemon fruit, São Paulo, Brazil, 1936. Fawcett—J. T. Middleton (2016).

Phytophthora cactorum var. *applanata* Chester

36, 353 (T) Lilac, Penn., U.S.A., 1929. K. Chester—CBS.

24, 398 Schinus molle, Argentina. M. J. Frezzi.

Phytophthora cambivora (Petri) Buism.Syn. *Blepharospora cambivora* Petri

21, 172 (2) (T) Castanea sativa, Italy, 1917. Petri—CBS.

40, 505 Castanea sativa, Portugal. A. A. L. Pimentel—CMI, 1950.

Phytophthora capsici Leonian

40, 502 CBS—CMI, 1950.

Phytophthora cinnamomi Rands

22, 938 (T) Cinnamon, Sumatra, 1922. R. D. Rands—ATCC(1407)—L. H. Leonian—CMI—NCTC(2804).

40, 535 Avocado roots, California. V. A. Wager—J. T. Middleton(2055).

20, 561 Conifer, Argentina. M. J. Frezzi(691).

40, 506 Castanea sativa, Spain. P. Urquijo Landaluze (U).

40, 507 Castanea sativa, Spain. P. Urquijo Landaluze (M).

Phytophthora citrophthora (Smith & Smith) Leonian

32, 034 New Zealand. Brien (NZ. 13)—S. F. Ashby—E. M. Blackwell—NCTC (6103), 1941—C. E. Foister.

40, 531 Lemon bark, California. Fawcett—J. T. Middleton(1309).

Phytophthora colocasiae Racib.

42, 788 Indian Agric. Res. Inst., New Delhi (G. C. 368).

Phytophthora cryptogea Pethyb. & Laff.

21, 278 China aster, California. C. M. Tompkins(214)—J. T. Middleton

(2015/214)—CMI, 1948. Forms oospores with IMI. 22938 P. cinnamomi.

Phytophthora drechsleri Tucker

40, 499 Chrysanthemum cinerariaefolium, root rot. M. J. Frezzi(619). (+).

40, 500 Solanum lycopersicum, fruit rot. M. J. Frezzi (830). (-).

40, 532 Citrus, California. J. T. Middleton(2117). (-).

Phytophthora erythroseptica Pethyb.

21, 277 Potato, Belfast, N. Ireland. A. E. Muskett—CBS—CMI, 1948.

34, 684 (T) Potato, Ireland. Pethybridge(23)—CBS—CMI, 1949.

Phytophthora fragariae Hickm.

32, 270 (T) Strawberry, G. B. C. J. Hickman—CMI, 1949.

- Phytophthora heveae* Thompson
36, 528 Hevea rubber, Kuala Lumpur, Malaya. A. Johnston (C. 424)—CMI, 1949.
- Phytophthora hibernalis* Carne
36, 906 CBS—C. J. Hickman (82)—CMI, 1949.
- Phytophthora himalayensis* Dastur
17, 028 (T) Potato, Kufri, India, 1945. J. F. Dastur.
- Phytophthora infestans* (Mont.) de Bary
35, 030 Potato, California. J. T. Barrett (1733)—CMI, 1948.
35, 031 Tomato, California. J. T. Barrett (1740)—CMI, 1948.
- Phytophthora lateralis* Tuck. & Milbr.
40, 503 (T) Chamaecyparis lawsoniana. Tucker—CBS—CMI, 1950.
- Phytophthora meadiei* McRae
36, 529 Hevea rubber, Malaya. A. Johnston (C. 425)—CMI, 1949.
- Phytophthora megasperma* Drechsler.
22, 628 Almond seedlings, California, U.S.A. C. M. Tompkins (349)—CMI, 1948.
32, 035 (T) Althaea rosea, U.S.A. C. Drechsler—S. F. Ashby—CBS—P. H. Williams—E. M. Blackwell—CMI, 1948.
- Phytophthora palmivora* (Butler) Butler
32, 268 Mandarin orange fruit rot, Salto, Uruguay, 1937. Fawcett—J. T. Middleton (2004)—CMI, 1946. ("Rubber" strain).
42, 104 Coconut. NCTC(?3133)—CMI, 1931—J. T. Middleton. ("Cacao" strain.)
42, 076 Cacao pods, Benin, Nigeria, 1949. J. N. Waterston. (Cacao strain.)
46, 333 Cacao, Brisbane, Australia. J. H. Simmonds.
- Phytophthora parasitica* Dastur emend. Ashby
21, 279 J. T. Middleton (2010)—CMI, 1948. (-).
22, 176 Nigella damascena, Mauritius. G. Orian—CMI, 1948 (-).
35, 087 Tomato seedling, High Wycombe, Bucks., 1945. N. Montgomery (14) (+).
- Phytophthora porri* Foister
32, 269 Leeks, Evesham, Glos. J. A. Tomlinson—CMI, 1948.
- Phytophthora quiniæ* Crandall
40, 504 (T) Cinchona Crandall—CBS—CMI, 1950.
- Phytophthora richardiae* Buism.
32, 200 Calla lily (root rot). CBS—S. F. Ashby—NCTC(2806), 1928—C. E. Foister.
- Phytophthora syringæ* Kleb.
38, 914 Lilac. De Bruyn—CBS—C. J. Hickman (79)—CMI, 1949.
40, 529 ? Valencia orange fruit, California, 1933. Fawcett—J. T. Middleton (1891-C).

Pilaira anomala (Ces.) Schroet.

- 37,159(a) Rabbit dung, Richmond Park, Surrey, 1949. H.A.Dade.
43,023 Rabbit dung, Quantock Hills, Somerset, 1950. H.A.Dade.

Piptocephalis cylindrospora Bain.

- 17,745(a) *Circinella* ?tenella, England. E.Yuill—G.R.Bisby—CMI,
1947.

Pleiochaeta setosa (Kirchn.) Hughes

Syn. *Ceratophorum setosum* Kirchner

- 16,262 Lupin, Wisley, Surrey. D.E.Green—NCTC(4856), 1935.

Pleospora sp.

- 43,101 Air, New Zealand, 1950. M.K.Dye (Ak.96.2).

Pseudeurotium zonatum v. Beyma

- 52,643 Soil, Chobham Common, Surrey, 1953. P.Bull—M.P.Topping
(533).

Pullularia nigrans Berkh.

— see *Dematium nigrum*.

Pullularia pullulans (de Bary & Löw) Berkh.

- 17,468 Bainier Coll. —M.B.Church, Washington (1719.4)—NCTC(1744),
1924.
25,323 Rennerfelt, Sweden—FPRL(S.9.A)—CMI, 1948.
43,918 Submerged hawthorn twigs, Gerrards Cross, Bucks., 1950.
J.J.Cavett.
45,533 Painted wood, Costa Rica. M.H.Downing (QM.279.c)—CMI,
1951. Paint mould.

Pullularia sp.

- 50,357 Cambridge, 1952. R.Leach.

Pyrenochaeta sp.

- 45,942 Soil, Ampthill Forest Nursery, Beds., 1949. J.E.Brind.

Pyronema domesticum (Sow. ex Fr.) Sacc.

- 46,224 From a wall, CMI, Kew, Surrey, 1951. H.A.Dade.

Pyronema omphalodes (Bull. ex Fr.) Fuckel

— syn. *P. confluens* Tul.

- 29,625 M.P.Topping—CMI, 1948.
29,664 Gwynne-Vaughan—CBS—CMI, 1948.
43,914 M.P.Topping—CMI, 1950.

Pythiomorpha miyabeana Ito & Nagai

- 34,386 (T) Rice seedlings, Japan. Ito—CBS—CMI, 1949.

Pythium acanthicum Drechs.

- 32,041 (A) ?*Citrullus vulgaris*, U.S.A. C.Drechsler—S.F.Ashby,
1932—NCTC(3548)—C.E.Foister.
31,724 Soil, Lakenheath Warren, Suffolk, 1948. J.H.Warcup (B.135).

Pythium debaryanum Hesse.

46,558 Strawberry roots, Auckland, New Zealand. H.C. Smith (Y. 18)
—CMI, 1952.

Pythium gracile Schrenk.

31,802 Peas, foot rot, Southern Rhodesia, 1948. G.R. Bates(7151).

Pythium graminicola Subram.

34,768 J. T. Middleton (898)—C. E. Foister, 1947.

Pythium helicoides Drechs.

34,389 S. F. Ashby—CBS—CMI, 1949.

Pythium intermedium de Bary.

22,931 *Kentia forsteriana*, Gembloux, Belgium, 1931. E. Marchal—
CMI—NCTC(3549), 1932.

39,858 Hops, E. Malling, Kent, 1943. W. G. Keyworth—E. M. Blackwell.

Pythium mamillatum Meurs.

45,622 C. J. Hickman—CMI, 1951.

Pythium proliferum de Bary

42,098 Plant debris, R. Dart, Totnes, Devon, 1950. G. M. Waterhouse.

Pythium splendens Braun

36,527 *Begonia* collar rot, Singapore. A. Johnston (C. 423).

Pythium ultimum Trow.

33,291 Lettuce roots, Slough, Middx., 1948. H. Jacks.

Pythium vexans de Bary

34,882 *Piper nigrum* seedlings, Saigon, Indo-China. H. Barat—
A. Johnston (C. 258), 1949.

Ramularia bellunensis Speg.

10,992 *Chrysanthemum cinerariifolium*, Kenya. R. M. Nattrass(204)—
CMI, 1947.

Rhacodium cellare Pers. ex Wallr.

44,943 Wine cellar. CBS—L. D. Galloway—CMI, 1951.

Rhinotrichum lanosum (Cooke) Cooke

51,266(b) Plaster and wall-paper, London, 1941. H. E. Hinton—
F. L. Balfour-Browne.

Rhizoctonia lamellifera Small

42,242 *Jacaranda* roots, Kenya, 1950. R. M. Nattrass(1361).

Rhizoctonia solani Kühn

20,697 Rice, Kuala Lumpur, Malyaa. A. Johnston(9)—CMI, 1948. "A"
strain of Park & Bertus.

44,225 Potato, England. RCS(R. 55)—CMI, 1950.

44,226 Seakale, England. N. Montgomery (26)—CMI, 1950.

Rhizopus arrhizus Fischer

16,641 Cotton lint, India. M. K. Patel—CMI, 1947.

- 21,993 Roots, Cyprus. R. M. Nattrass—S. F. Ashby—NCTC(5357), 1938.
 34,169(b) Groundnut hypocotyl. Tanganyika, 1949. I. A. S. Gibson.

Rhizopus artocarp Racib.

- 51,921 *Artocarpus heterophyllus*, Njala, Sierra Leone, 1953. F. C. Deighton (M. 5138).

Rhizopus cohnii Berl. & de Toni

- 39,698 Pig, Germany, Nielsen—CBS as *R. suinus* (A) Niels. —CMI, 1950.

Rhizopus delemar (Boid.) Wehm. & Hanz.

- 44,245 NRRL(1472)—ATCC(9374), 1947. Amylo process.

Rhizopus japonicus Vuill.

- 21,600 Central Lab., Manchurian Railway—NCTC(1905), 1924.
 21,603 Central Lab., Manchurian Railway—(Strain I)—NCTC(1907A), 1924.

Rhizopus nigricans Ehrenb.

- see *R. stolonifer*.

Rhizopus oryzae Went & Geerl.

- 21,602 Central Lab., S. Manchurian Railway—NCTC(1907), 1924.
 40,564 NRRL. 395—ATCC. 9363—CMI, 1950. Production of lactic acid.
 44,534(b) Groundnut seed, Urambo, Tanganyika, 1950. I. A. S. Gibson (73).
 50,109(b) Cacao husks, Gold Coast, Asuansi, 1952. J. J. Obeng.

Rhizopus sexualis (Smith) Callen

- 36,280 (T) Rotting strawberry, England, 1922. M. N. Kidd—G. Smith—CBS.

Rhizopus stolonifer (Ehrenb. ex Fr.) Lind.

- syn. *R. nigricans* Ehrenb.
 17,314 Narcissus, Plymouth. N. H. Alcock—NCTC(1087), 1921.
 35,571 Canvas cotton, India, 1948. P. Datton.
 36,484 CBS (Strain "a")—CMI, 1949. m. 36,485.
 36,485 CBS (Strain "b")—CMI, 1949. m. 36,484.
 42,844 Groundnut seed, Urambo, Tanganyika, 1950. I. A. S. Gibson(40).

Rhizopus suinus Nielsen

- see *R. cohnii*.

Rhizopus tonkinensis Vuill.

- 21,601 Central Lab., S. Manchurian Railway—NCTC(1906), 1924.

Rhizopus tritici Saito

- 39,701 (A) Saito—CBS—CMI, 1950.

Rhizopus sp.

- 15,409 A Jørgensen's Lab., Copenhagen as *Amylomyces* sp. —A. C. Thaysen—NCTC(605), 1920.

Rhodotorula rubra (Demme) Lodder

- 38,784 NCTC. 4585—J. A. Burns—CMI, 1949.

Rhynchosporium orthosporum Cald.

51,917 *Dactylis glomerata*, Shinfield, Berks., 1951. H. Owen.

Rostrella coffeae Zimm.

— see *Ceratocystis fimbriata*.

Saccharomyces cerevisiae Meyen ex Hansen

19,391 Strain Fleischmann (139). K. Dittmar—ATCC. 9896—NCTC(7044), 1945.

19,540 Strain HJB. H. J. Bunker—NCTC(7043), 1945. Beer yeast.

39,916 H. J. Bunker—CMI, 1950. Baking strain.

Saccharomyces ellipsoideus Hansen

38,758 Strain Michigan 48. NCTC(7040)—H. J. Bunker—CMI, 1949.

Saccharomyces macedoniensis Diddens & Lodder

38,918 NCTC—G. E. Shaw—CMI, 1949. Assay of aneurin.

Saccharomyces pyriformis Marshall Ward

45,290 Holland. B. Kirsop—CMI, 1951.

Sachsia suaveolens Lindner

45,322 Sauce, England. L. D. Galloway—CMI, 1951.

Sapromyces elongatus (Cornu) Thaxt.

40,771 Couch—CBS—CMI, 1950.

Schizosaccharomyces octosporus Beijer.

23,657 B. J. Glover—CMI, 1949.

Schizosaccharomyces pombe Lindner

39,917 H. J. Bunker—CMI, 1950.

Schizothyrium ptarmicae Desm.

50,218 *Achillea ptarmica*, Wombourn. Staffs., 1952. C. P. Quarrel—N. C. Preston.

Sclerotinia homoeocarpa Bennett

43,633 Seed oats, Belfast, N. Ireland. J. P. Malone(198A)—CMI, 1950.

Sclerotinia intermedia Ramsey

23,996 Bailey—CBS—NCTC(3342), 1931.

Sclerotinia minor Jagger

23,997 CBS—NCTC(3343), 1931.

Sclerotinia sclerotiorum (Lib.) de Bary

17,473 *Antirrhinum*, RHS Gardens, Wisley. W. J. Dowson—NCTC(1604), 1923.

Sclerotium coffeicola Stahel

37,953 *Aristolochia gibbosa* (leaf spot), Sierra Leone, 1949. F. C. Deighton (M. 2944).

37,954 *Jasminum pubescens* (leaf spot), Sierra Leone, 1949. F. C. Deighton (M. 3030).

51,920 *Bauhinia* sp., Sierra Leone, 1953. F.C. Deighton (M. 5135).

Sclerotium delphinii Welch

49,110 *Pyrus malus* root, Kenya. N.E. Ryan—R.M. Nattrass(1656).

Sclerotium oryzae-sativae Sawada

31,287 Rice, Formosa, 1929. W. Yamamoto(327)—NCTC(3417).

Sclerotium rolfsii Sacc.

33,912 Groundnut, Tafo, Gold Coast, 1947. H. Owen.

45,090 Leaf bases of *Neomarica* (?) *gracilis*, Njala, Sierra Leone, 1950. F.C. Deighton (M. 3726).

46,238 *Achimenes* (?) *longiflora* stem, Njala, Sierra Leone, 1951. F.C. Deighton (M. 4061).

46,239 *Zephyranthes tubispatha* leaves, Njala, Sierra Leone, 1951. F.C. Deighton (M. 4062).

46,240 *Gerbera jamesonii* leaf stalk, Njala, Sierra Leone, 1951. F.C. Deighton (M. 4063).

Sclerotium sp.

50,486(b) *Pinus caribaea*, Salisbury, Southern Rhodesia, 1952. A. Rothwell (10825).

Scopulariopsis brevicaulis (Sacc.) Bain.

17,297 Cheese, U.S.A. M.B. Church, Washington(2)—NCTC(580), 1920. (= Raistrick Ad. 40).

40,026 NRRL.1096—G. Smith, 1949.

Scopulariopsis spp.

23,015 Contaminant of culture, 1948. H.A. Dade.

34,823 Faeces of dead bee, Hounslow, Middlesex, 1949. H.A. Dade.

49,528 *Chrysalis* of silkworm, Mont Hawa, Belgian Congo, 1952. R.L. Steyaert (Herb. Brux A. 1395).

Sepedonium albo-griseum Balfour-Browne

See *Botryotrichum piluliferum*.

Sepedonium chrysospermum (Bull.) Tul.

— see *Apiocrea chrysosperma*.

Septonema spilomeum Berk.

— see *Hysterium insidens*.

Sordaria bombardioides Auersw. apud Niessl.

39,723 Rabbit dung, England. W.M. Page—CMI, 1950.

Sordaria curvispora Cain

44,149 (T) Carrot seed, Gilroy, Cal., U.S.A., 1940. J.W. Groves—R.F. Cain (12075).

Sordaria destruens (Shear) Hawker

44,227 L. Hawker—RCS(50), as *Melanospora destruens*, 1950.

49,111 *Chrysanthemum cinerariaefolium*, Kenya. N.E. Ryan—R.M. Nattrass(1707)—CMI, 1952.

Sordaria fimicola (Rob.) Ces. & de Not.

35, 086(d) Horse dung, Kirkby-on-Bain, Lincolnshire, 1949. G. M. Waterhouse.

37, 159(b) Rabbit dung, Richmond Park, Surrey, 1949. H. A. Dade.

39, 722 Rabbit dung, England. W. M. Page—CMI, 1950.

Sordaria humana (Fuckel) Wint.

52, 645 Soil, Chobham, Surrey, 1953. P. Bull—M. P. Topping(265. Sord.).

Sordaria inaequalis Cain

44, 148 (A) Carrot seed, Minneapolis, U. S. A., 1940. J. W. Groves (I-1-68A)—R. F. Cain (12049).

Sordaria macrospora Auersw.

39, 721 Rabbit dung, England. W. M. Page—CMI, 1950.

Sordaria verruculosa Jensen

34, 483 Soil, Lakenheath Warren, Suffolk, 1949. J. H. Warcup(B. 84. b).

Sordaria sp.

34, 171 Soil, Lakenheath Warren, Suffolk, 1949. J. H. Warcup(B. 50. b).

49, 781 Tomato seed, Jersey, 1951. D. H. Phillips (J. 2).

Spegazzinia tessarthra (Berk. & Curt.) Sacc.

45, 539 Tentage, New Guinea. M. H. Downing (QM. 840)—CMI, 1951.

51, 265 Soil, Tanganyika, 1952. A. R. Cottrell (C. 62).

Speira toruloides Corda

5, 634 Corylus wood and bark, Ranmore Common, Surrey, 1946.

S. J. Hughes.

Sphaeronema cornutum Preuss

43, 609 Seed oats, Belfast, N. Ireland, 1948. J. P. Malone (25. B/47).

Spicaria elegans Corda

— see *Paecilomyces elegans*.

Spicaria violacea Abbott

39, 815 (T) Soil, U. S. A. Gilman & Abbott—Thom(4894. 4), 1927—NRRL(901)—G. Smith.

Spicularia terrestris Timonin

44, 790 Soil, Canada. M. I. Timonin (573)—CMI, 1951.

Spirospira floriforme van Beverwijk

52, 467 (T) Decaying birch leaves in pond, Eerde, near Ommen, Holland, 1947. A. L. van Beverwijk.

Spondylocadium atrovirens Harz.

1, 685 Potato, Harpenden, Herts, 1945. A. Smith.

Sporendonema casei Desm. ex Fr.

(Syn. *Oospora crustacea* (Bull.) Sacc.)

37, 084 Cheese, England. L. D. Galloway(185)—CMI, 1949.

Sporendonema epizoum Corda

— see *Sporendonema sebi*.

Sporendonema sebi Fr.

(Syn. *Hemispora stellata* Vuill., *S. epizoum* Corda, *Torula fuliginea* Berkh.)

7,424 Man, Italy. G. Pollacci (as *S. epizoum* Corda)—NCTC(4517), 1934.

7,425 Man, Sabouraud Coll. —J. T. Duncan—NCTC(3023), 1929.

7,427 Bainier Coll. (as *Torula fuliginea*)—M.B. Church (1419.8)—NCTC(1746), 1924.

13,876 Man, Brazil. O. Da Fonseca (as *Hemispora stellata* Vuill.)—R. Ciferri—NCTC(2760), 1928.

23,988 Contaminant of culture, Kew, 1948. H.A. Dade.

35,107 Malt extract, Kew, 1949. J. Hawkins.

37,338 Jam, Sweden, 1949. J.A. Nannfeldt(10663).

44,741 Tunisian dates, Nottingham, 1950. B. Webster.

Sporidesmium bakeri Syd. var. *maydicum* (Sacc.) Hughes

Syn. *Clasterosporium maydicum* Sacc.

46,232 *Andropogon gabonensis*, Njala, Sierra Leone, 1951. F.C. Deighton (M. 3852).

Sporidesmium paradoxum Corda

5,805 *Betula periderm*, Ashstead Common, Surrey, 1946. M.B. Ellis.

Sproidiobolus johnsonii Nyland

44,158 (T) Pustule of *Phragmidium rubi-idaei* on *Rubus idaeus*, Puyallup, Washington, 1946. G. Nyland—C. T. Ingold.

Sporobolomyces roseus Kluver & v. Niel

29,384 *Ranunculus*, Norfolk, 1940. G.R. Bisby—NCTC(6435), 1940.

43,529 Seed oats, Northern Ireland, 1946. J.P. Malone (4H).

Sporocybe cuneifera (Berk. & Br.) Sacc.

34,001(e) Cabbage stalk, Stoke Poges, Bucks., 1949. M.F. Madelin.

Sporophora toruliformis Luteraan

51,370 (T) Solution of monopotassium phosphate, Paris, 1951. P.J. Luteraan.

Sporotrichum bombycinum (Corda) Rabenh.

23,280 CBS—F. T. Brooks—NCTC(4075), 1931.

Sporotrichum carnis Brooks & Hansford

23,281 (T) Meat, Cambridge. F. T. Brooks—Raistrick (Ag. 23)—NCTC(4074), 1931.

32,065 Eggs, Canada. W.I. Illman (U.136)—CMI, 1948.

46,340 Soil, Ampthill Forest Nursery, Beds., 1949. J.E. Brind (ASH. 17).

46,341 Soil, Ampthill Forest Nursery, Beds., 1949. J.E. Brind (BSF. 8).

Sporotrichum sp.

41,145 Tentage, Oro Bay, New Guinea, 1945. W.L. White (JQMD. 995).

Stachybotrys atra Corda

16,200 Cotton yarn, England. L.D. Galloway—S.W. Basu(70)—CMI, 1947.

- 17,459 G. Smith—CMI, 1947. Isolation used for testing mould-proofing.
 32,542 Soil, Lakenheath Warren, Suffolk, 1948. J.H. Warcup(B. 147).
 42,310 Dosootie, Peshawar, India, 1946. Kanpur D.303.
 42,311 Kanpur D.380.
 49,534 Canvas, New Guinea, ca 1942. L. Fraser.

Stachybotrys dichroa Grove

- 17,506 Dead herbaceous stems, Exeter, 1947. M.B. Ellis.

Stachybotrys subsimplex Cooke

- 42,309 Cordage, Kanpur, India, 1945. Kanpur D.135.

Stachybotrys spp.

- 24,004 Soil, Winnipeg, Canada. G.R. Bisby—NCTC(6437), 1942.—CMI, 1948.
 39,834 Cardboard box, Key West, Florida, 1947. W. Lawrence White (369.a).

Stachylidium cyclosporum Grove

- see *Verticillium cyclosporum*.

Stachylidium theobromae Turconi

- see *Verticillium theobromae*

Stemphylium ?alternariae (Cooke) Sacc.

- 31,640 Jute sand bag, England. S.N. Basu(107)—CMI, 1948.

Stemphylium consortiale Thümen

- 33,685 Lima bean seeds, Canada, 1948. J. Walton Groves (I-58)—
 S.J. Hughes. 1949.

Stemphylium sarcinaeforme (Cav.) Wilts.

- 49,672 I. C. I., Hawthorndale Lab.s (K. 9).

Stemphylium sp.

- 15,408 Butter, Ardeer, Argyllshire, Raistrick(Ag.16)—NCTC(4091), 1931.

Stilbum sp.

- 48,682 Cotton stalks, Arizona, U.S.A., 1952. J.G. Brown (2).

Streptomyces albus (Doria Rossi emend. Krainsky) Waksman & Henrici.

- 52,766 V. Puntoni—NCTC(3525), 1932—C. E. Coulthard.

Streptomyces griseus (Krainsky) Waksm.

- 39,047 NCTC(6961)—CMI, 1950.
 39,048 NCTC(6962)—CMI, 1950.
 50,967 World Health Organization—NCIB—CMI, 1952. Streptomycin production strain.

Streptomyces lavendulae (Waksm. & Curt.) Waksm.

- 30,045 NCTC(6959)—CMI, 1950.
 39,046 NCTC(6960)—CMI, 1950.

Stysanus ulmariae McWeeney

- 36,938 *Picea abies*, Sjaelland, Hørsholm, Skordtrikt, Denmark, 1949. E.W. Mason.

Stysanus stemonites (Pers. ex Fr.) Corda

— see *Echinobotryum atrum*.

Stysanus sp.

51,364 Contaminant of culture, CMI, Kew, 1953.

Syncephalastrum cinereum Bain.

21,180 Rice, Burma. D.Rhind—CMI—NCTC(2499), 1928.

Syncephalastrum racemosum (Cohn) Schroet.

21,161 ?Tobacco, Bristol, 1930. F.W.Jollyman—NCTC(3155), 1930.

21,178 G.W.Martin, Iowa, U.S.A.—NCTC(1794), 1924.

31,769 Tobacco, Southern Rhodesia. G.R.Bates (7064.A)—CMI, 1948.

35,039 Potato, Tafo, Gold Coast, 1949. H.Owen.

Tetraccoccosporium paxianum Szabô

51,264 Black cotton soil, Tanganyika, 1952. A.R.Cottrel (ICI, C.33).

Thamnidium elegans Link

21,945 Meat, Cambridge, 1919. F.T.Brooks—NCTC(1127).

23,984 S.F.Ashby—NCTC(2671), 1928.

43,624 Seed oats Belfast, N.Ireland. J.P.Malone (43.A/47):

Thielavia sepedonium Emmons

45,476 Soil, Ampthill Forest Nursery, Beds., 1950. J.H.Warcup (E.98).

Thielavia sp.

51,497 Soil, New S.Wales, Australia. S.Marcus—G.Smith—CMI, 1953.

Thielaviopsis basicola (Berk. & Br.) Ferr.

36,482 Tiddens (Strain III)—CBS—CMI, 1949.

36,483 Gilbert—CBS(as *Thielavia basicola*)—CMI, 1949.

Torula allii (Harz) Sacc.

29,394(a) *Fagus sylvatica* wood, Lacey Green, Bucks., 1948. S.J. Hughes.

Torula chartarum (Link) Lindau

16,404 Ciferri—CBS—CMI, 1950.

Torula convoluta Harz

— see *Gliomastix convoluta*.

Torula fuliginea Berkh.

— see *Sporendonema sebi*.

Torula funerea Ces.

34,930 *Carex pseudocyperus*, dead leaves, Brook Mere, Norfolk, 1949. E.A., M.B., & J.P.Ellis.

Torula gyrosa Cooke & Massee

3,001(a) Wood, Truro, Cornwall, 1946. F.Rilstone.

Torula herbarum Link ex Fr.

1,332 Brassica stems, Haslemere, Surrey, 1945. E.W.Mason ("c" strain).

13,963 Dead umbelliferous stems, Thornton-le-Dale, Yorks., 1947. E.W.Mason.

- 17, 996 Contaminant of culture, Yaxley, Northants, 1947. C.J. La Touche.
- Torula luzulae* Fuckel
31, 407(a) *Urtica dioica*, dead stems, Masham, Yorks, 1948. S. J. Hughes.
- Torulopsis utilis* (Henneb.) Lodder
23, 311 Hayduck & Hacker—CBS—LSH(Y. 5)—CMI, 1948.
- Torulopsis utilis* var. *major* Thaysen & Morris
33, 552 (T) H. J. Bunker—CMI, 1949.
- Trachysphaera fructigena* Tabor & Bunting
33, 913 Cacao pod, Tafo, Gold Coast, 1948. H. Owen.
- Trichocladium asperum* Harz
39, 677 Contaminant of culture, Hallburn, Cumberland, 1950. P. K. C. Austwick.
- Trichoconis* sp.
49, 116 Air, India, 1952. S. Ramanujam.
- Trichoderma viride* Pers. ex Fr.
16, 198 Jute fibre, Calcutta, India, 1940. S. W. Basu(24).
17, 624 From a twig, Epping Forest, Essex, 1945. G. C. Ainsworth.
Isolation with oval spores, as described for *T. Koningi* Oud.
24, 039 Soil, Jealott's Hill, Berks., 1944. P. W. Brian(213)—NCTC (7058). Viridin-producing strain.
45, 548 Tent canvas, Bougainville, Solomon Is. M. H. Downing(QM. 6. A.)—CMI, 1951.
45, 553 M. H. Downing (QM. 365) (= BPI. T-1)—CMI, 1951. Used in U. S. A. for testing mould-proofing.
— see also IMI. 49271 *Hypocrea lenta*.
- Trichosporium cerealis* (Thum.) Sacc.
Syn. *Oidiiodendron nigrum* Robak
38, 105 Air, Amsterdam, Holland. P. D. v. d. Werff—CBS—CMI, 1949.
46, 567 (A) Wood pulp, Norway. Robak—CBS—CMI, 1951.
51, 450 Air, Cardiff, 1952. M. Richards (AARU. 77)
- Trichosporium vesiculosum* Butl.
43, 526 *Casuarina equisetifolia* (wilt), Madras, India. P. H. Gregory.
- Trichosporon* sp.
45, 500 Copra, Trinidad. A. C. Thaysen—CMI, 1951.
- Trichothecium flagrans* Duddington
25, 853 (T) Nematodes, in compost, Bedford College, London, 1947.
C. L. Duddington(16).
- Trichothecium roseum* [Pers.] Link ex Fr.
32, 236 Contaminant of culture, Kew, Surrey, 1948. S. J. Hughes.
45, 538 Leather, New Guinea. M. H. Downing (QM. 102. e)—CMI, 1951. Attacks nylon.
50, 660 Apple, England, 1945. G. Smith (LSH:BB. 105a)—G. G. Freeman I. C. I., Nobel Division (F. 293). Source of trichothecin, etc.
50, 661 Tomato, England, 1947. S. Marcus—LSH(95)—G. G. Freeman, I. C. I., Nobel Division (F. 292). Source of trichothecin, etc.

Trichurus terrophilus Swift & Povah

46, 251 Eucalyptus saligna, cellar, Bekker, S. Africa. TRL(8)–
FPRL(S. 590)–CMI, 1951.

Tritirachium dependens Limber

45, 558 Leather shoes, Bougainville, Solomon Is. M. H. Downing
(QM. 4g-2)–CMI, 1951.

Tritirachium roseum van Beyma

45, 535 Nylon, Ohio, U. S. A. M. H. Downing (QM. 494)–CMI, 1951.

Tubeufia helicomyces v. Höhn.

47, 036 Hazel. A. L. Van Beverwijk–CMI, 1951.

47, 037 Ash. A. L. Van Beverwijk–CMI, 1951.

Typhula sp.

51, 067 Seeds of Ulex minor, Blackwater Common, Surrey, 1947. H.
Brett–M. P. Topping–B. L. Brady.

Ustilago maydis (DC) Corda

35, 648 Maize, U. S. A. Stakman (Biotype 5:2)–CBS–CMI, 1949.

35, 676 Maize, U. S. A. Stakman (Biotype A)–CBS–CMI, 1949.

Ustilago scitaminea Syd.

35, 616 Sugar-cane, Natal, S. Africa. A. McMartin–G. R. Bates
(MR. 8645)–CMI, 1949.

36, 859 Sugar-cane, Natal, S. Africa. A. McMartin–CMI, 1949.

Venturia inaequalis (Cooke) Wint.

24, 006 Apple, E. Malling, Kent, 1946. M. H. Moore(60).

Venturia pirina Aderh.

28, 958 Pear, E. Malling, Kent, 1948. M. H. Moore(462),

Verticillium albo-atrum Reinke & Berth.

17, 461 Hops, Tudeley, Kent, 1947. W. G. Keyworth. "Fluctuating wilt".

17, 462 Hops, Brenchley, Kent, 1947. W. G. Keyworth–CMI, 1947.
"Progressive wilt".

28, 065 Potato, Germany. T. Matsumoto. –NCTC(2512), 1928.

44, 578 Hops, Penshurst, 1949. R. V. Harris(178). "Flucuating wilt".

52, 045 Gerbera jamesonii, Tanganyika, 1953. G. B. Wallace (63/53).

Verticillium buxi (Schmidt ex Fr.) Auersw. & Fleisch.

50, 686(c) Buxus sempervirens, Silent Pool, nr. Shere, Surrey, 1952.
B. A. Stone.

Verticillium candelabrum Bon.

31, 243(b) Pinus sylvestris needles, Richmond Park, Surrey, 1948.
S. J. Hughes.

Verticillium cyclosporum (Grove) Mason & Hughes

(Syn Stachylidium cyclosporum Grove.)

16, 091 (A) Rhododendron, dead wood and bark, Richmond Park, Surrey,
1947. S. J. Hughes.

Verticillium dahliae Kleb.

- 17,460 Hops, Burghill, Hereford, 1947. W.G.Keyworth (1301).
 44,576 Tomato, Shoreham, Sussex, 1947. R.V.Harris (109).
 45,492 Mint, Mazoe Valley, Southern Rhodesia, 1951. J.Broadfoot (9213).

Verticillium marquandii Massee

- see *Paecilomyces marquandii*.

Verticillium nigrescens Pethyb.

- 44,575 Potato, Offham, Kent, 1944. R.V.Harris(74).

Verticillium nubilum Pethyb.

- 46,339 Soil, Ampthill Forest Nursery, Beds., 1949. J.E.Brind (4/AV1).
 45,323 I.Isaac—CMI, 1951.

Verticillium theobromae (Turconi) Mason & Hughes

- (Syn. *Stachyldidium theobromae* Turc.)
 31,432(a) Banana, Jamaica, 1948. E.B.Martyn.

Virgaria sp.

- 46,566 *Cynodon* sp., Southern Rhodesia, 1952. W.E.Kerr.

Volutella buxi (Corda) Berk.

- 49,467(b) *Buxus sempervirens*, Box Hill, Surrey, 1952. B.A.Stone.

Volutella ciliata (Alb. & Schwein.) Fr.

- 38,780 Tomato root, Cheshunt, England, 1949. M.Ebben—P.H.Williams
 —E.M.Wakefield.

Wardomyces anomala Brooks & Hansford

- 32,064 Eggs, Canada. W.I.Illman—CMI, 1948.

Weisneriomyces javanicus Koord.

- 38,974 Clove seedling leaves, Buitenzorg, Java, 1948. Boedijn & Reitsma (B.R.3/48).

Zygorrhynchus exponens Burgeff

- 29,219 Soil, Buffs wood, Cambs., 1946. J.H.Warcup (BM.1).

Zygorrhynchus moelleri Vuill.

- 21,994 S.Africa. V.A.Wager—NCTC(3231), 1930.
 21,995 W.H.Wilkins, Oxford—NCTC(3321), 1931.
 29,216 Soil, Wellington, New Zealand, 1946. J.H.Warcup (M.138).

Zygorrhynchus vuilleminii Namysl.

- 21,113 Ling—CBS—Malcolm Wilson—NCTC(5701), 1939.
 29,217 Soil, Buffs Wood, Cambs., 1947. J.H.Warcup(B.21).
 47,187 Contaminant of culture, Newcastle-upon-Tyne, 1949. P.G. Fothergill.

Zygosaccharomyces bisporus Nagan.

- 23,656 CBS—B.J.Glover—CMI, 1948.

Zygosporium mycophilum (Vuill.) Sacc.

- 1,547 Contaminant of culture, Kew, Surrey, 1945. E.W.Mason.

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